



**Flinders**  
UNIVERSITY

College of Medicine  
& Public Health

# Flinders Centre for Ophthalmology, Eye and Vision Research



## ANNUAL REPORT 2016

<http://www.flinders.edu.au/medicine/sites/ophthalmology/research/>

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# **FCOEVR: Director's Report 2016**

## **Outcomes in 2016 and alignment with University Strategic Plan**

Our Centre conducts research related to the eye and vision. We are physically based in Ophthalmology (located with the College of Medicine and Public Health) and Optometry (College of 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 is a flagship of Flinders University Research Excellence. We are maintaining our research higher degree student load, 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, in alignment with the University's Strategic Plan.

## **Research higher degree student load and completions**

Our current PhD student load is 8 students (5 in Ophthalmology and 3 in Optometry). An additional member of the Centre is enrolled in a PhD through the College of Science and Engineering. One PhD student (Javadiyan) completed her candidature in 2016, one (Kaidonis) has recently had her thesis passed by the examiners, and another (Souzeau) has submitted her thesis for examination.

## **Publications**

In 2016, members of the Centre published 75 research articles and letters in peer-reviewed journals (compared with 48 in the preceding year), together with 4 book chapters. From January to date in 2017, we have generated 32 articles (accepted or in press) and one book. In 2016, 25% of our articles were published in journals with impact factors above 5.0.

## **Grant funding**

Centre members generated \$2,413,700 in research grant income as Chief Investigators in 2016, according to Flinders University data, and \$2,534,463 according to our own records.

## **Presentations at national and international meetings**

From January 2016 to date, Centre senior members delivered over 80 presentations at international and national meetings. Of these, over 34 were plenary or invited platform presentations. In addition, younger members presented more than 20 talks and posters.

## **Highlights of 2016-7**

Highlights included interactions with Catherine Truman, the FCOEVR Visiting Scholar and Artist-in-Residence. An internationally-recognized jeweller and sculptor, Ms Truman was the 2016 SALA artist of the year and her work, including objects and displays emanating from her residency with Eye and Vision, are currently being exhibited ("No Surface Holds") at the Jam Factory in Adelaide. In 2016, Justine Smith was awarded a Matthew Flinders Distinguished Professorship and was elected Executive Vice-President-elect of ARVO. Keryn Williams was elected to Fellowship of the Australian Academy of Health & Medical Sciences (August 2016) and in 2017 received a Zonta Club of Adelaide Inc Women of Achievement Award for Outstanding Achievement in Health, Honorary Life Membership of the Transplantation Society of Australia and New Zealand, and was made Companion in the General Division of the Order of Australia.

## 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 optometry, was first established in 2005 with support from Flinders University. 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;
- inflammatory and infective eye conditions;
- glaucoma;
- congenital and adult cataract;
- molecular genetics of eye disease;
- diabetic retinopathy;
- quality of life and patient-recorded outcomes in those with ocular disease;
- estimates of the global burden of blindness
- ophthalmic registries.

## Summary of Performance in 2016

### Research income

The FCOEVR generated \$2,413,700 in research grant income in 2016, according to Flinders University Research Services Office data, and \$2,534,463 according to the Centre's own records. Approximately 75% of our research income was 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.

### Publications

From January 2016 to December 2016, members of the Centre published 75 research articles and letters in peer-reviewed journals. From January 2017 to date, we have already generated 32 publications. High-impact papers include several in *Nature Genetics* and *Lancet*. Overall in 2016-7, 27% of our articles were published in journals with impact factors above 5.0.

With respect to journal impact factors, we note that of the 57 journals listed under the discipline area of ophthalmology and optometry in the Journal Citation Index, only two - *Prog Ret Eye Res* and *Ophthalmology* - have impact factors over 5. The majority of our articles were published in the ophthalmic and optometric literature, because such articles engender maximum translational impact: in particular, they are read by clinicians active in the field.

### RHD student outcomes

Our current PhD student load is eight (9 last year). One student (Javadiyan) completed her PhD degree in 2016. Kaidonis and Souzeau have submitted their theses for examination, and Kaidonis' thesis has been passed. As in 2015, our capacity to enrol new students is limited by the availability of post-graduate scholarships, especially 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.

### Invited conference presentations

Members presented 34 invited presentations over 2016-7.

### Fellowships

Doug Coster is an elected member of the Australian Academy of Science, Technology and Engineering, and Justine Smith is a Fellow of the Australian Academy of Health and Medical Sciences. Keryn Williams was also elected Fellow of the Australian Academy of Health and Medical Sciences during 2016. Jamie Craig is an NHMRC Practitioner Fellow and Justine Smith is an ARC Future Fellow.

### Research impact and translation

The Centre operates the Australian and New Zealand Registry of Advanced Glaucoma, the Registry of Advanced Diabetic Retinopathy and the Australian Corneal Graft Registry. The International Ocular B Cell Lymphoma Registry is currently under construction.

## Performance against Key Performance Indicators for 2017

- Increase PhD student load and ensure timely completions;  
*We have maintained but not increased our load. However, existing students are all on track for timely completions.*
- Increase the quality of peer-reviewed publications, assessed by impact factor;  
*We have increased both the number and quality (as assessed by impact factor) of our publications.*
- Maintain external grant funding;  
*We have exceeded this KPI by increasing our external grant funding.*
- Increase number of invited presentations at national and international meetings;  
*We have increased our number of invited presentation over 2016-7.*
- Further improve research translation into clinical practice;  
*This KPI is difficult to quantify, but the Glaucoma Group led by Jamie Craig has established new interactions with a UK-based company (Regeneron), has instituted cascade genetic screening of family members, and is in negotiation with the SA Genomic Alliance for extension of accredited clinical testing for genetic mutations associated with glaucoma. Justine Smith has obtained some funding to develop an international Ocular B cell Lymphoma Registry. The Australian Corneal Graft Registry continues to lead the world in examining outcomes after corneal transplantation. The Optometry Group led by Konrad Pesudovs continues to expand its patient-reported outcome measures and quality-of-life measures for common ophthalmic conditions.*
- Extend collaborations;  
*In an attempt to extend local and national collaborations, the Centre recently (September 2017) held its first Eye and Vision Collaborators' Day, which was attended by over 70 individuals. It is too soon to determine whether new collaborations will arise from this initiative.*
- Maintain service to the disciplines of Ophthalmology and Optometry;  
*Members continue to provide manuscript and grant reviewing services for many international and national journals and funding bodies.*
- Maintain ERA performance of rank = 5.  
*We will see ...*

## Projected Key Performance Indicators for 2018

- Increase PhD and other research higher degree student load and ensure timely completions;
- Increase the quality of peer-reviewed publications, assessed by impact factor;
- Increase 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 - 2016

### Total Grant Funding: 2016

	Amount			Total
	Cat 1	Cat 2	Cat 3	
RSO Data	\$1,890,732	\$249,420	\$273,548	\$2,413,700
		Cat 2-4		
FCOEVR Data*	\$1,936,971	\$597,492		\$2,534,463

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

Year	Granting Body	Lead CI*	Amount		2016 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			Funding commencing 2017
2015-19	NHMRC Centre for Research Excellence	A Brown (JE Craig CI-H)	\$2,466,326		\$131,250	
2014-17	ARC Future Fellowship	JR Smith	\$989,144		\$248,835	
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	
2012-16	NHMRC Centre for Research Excellence	D Mackey (K Burdon CI-B, JE Craig CI-D)	\$2,500,000		\$201,431	
2015-16	NHMRC Clinical Research Scholarship	G Kaidonis		\$75,0561	\$37,530	
2014-16	Australian Organ & Tissue Donation * Transplantation Authority	KA Williams		\$484,746	\$224,962	
2014-16	Lions Medical Research Foundation Scholarship	T Zhou		\$105,000	\$35,000	
2016-18	NHMRC Project Grant	JE Craig	\$1,345,055		\$903,592	
2016-18	NHMRC Project Grant	KP Burdon (R Mills CI-D, S Sharma CI-E)	\$912,880		\$36,000	
2016	FUSA DVC-R	K Williams		\$100,000	\$100,000	
2016	Ophthalmic Research Institute	J Smith				
2016	FUSA FMNHS Seeding Grant	J Craig		\$18,000	\$18,000	
2016	FUSA FMNHS Seeding Grant	J Khadka		\$18,000	\$18,000	
2016	FUSA FMNHS Top Up Grant	J Smith		\$20,000	\$20,000	

Year	Granting Body	Lead CI*	Amount		2016 Allocation	Notes
			Cat 2	Cat 2-4		
2016	FMC Foundation Seeding Grant	B Appukuttan		\$18,000	\$18,000	
2016	FMC Foundation Seeding Grant	M Awadalla		\$17,000	\$17,000	
2016-17	FUSA DVC-R Innovation Parntership Seeding Grant	J Smith		\$12,500	\$12,500	
2016	FUSA FHS Near Miss Grant	J Smith		\$20,000	\$20,000	
2016	FUSA FHS Near Miss Grant	J Smith		\$40,000	\$40,000	
2016	FUSA CRG Grant	S Sharma		\$18,500	\$18,500	
2016-17	FUSA FHS Seed Grant	J Smith		\$18,000	\$18,000	

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

### 2016 Grant Income by Project

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)

2013-2017 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)

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 #1079864. A Keech, A Jenkins, T Henderson, A Brown, S-E Bursell, L Brazionis, **JE Craig**, L Maple-Brown, K O’Dea, V Gebiski. Diabetic Retinopathy - Closing the Loop for Diabetic Eye Care and Complication Risk Mitigation. \$2,479,298 (2017 - \$127,823 2018 -\$154,793, 2019 - \$104,471)

2015-2019 NHMRC Centre for Research Excellence #1086386. 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 – 2016 - \$131,250, 2017 - \$87,500, 2018 - \$43,750)

2015-2016 NHMRC Clinical Research Scholarship #1094399. **JE Craig, G Kaidonis, KP Burdon**. Epidemiological and molecular risk factors for diabetic retinopathy blindness. \$75,061.40 (\$37,530.70 pa)

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 (2016: \$903,592)

2016-2018 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 per financial year)

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

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

2016 Flinders University FHS Near-Miss Award. **J Smith**. Interactions between monocytes and endothelial cells in human retina. \$20,000

2016 Flinders University FHS Near-Miss Award. **J Smith**. Regulation of ICAM-1 expression in human retinal endothelial cells. \$40,000

2016-2017 Flinders University FHS Seed Grant. **J Smith**. Persistence of Ebola Virus in the human eye. \$18,000

2016-2017 Flinders University FHS Near-Miss Award. **J Smith**. Persistence of Ebola Virus in the human eye. \$37,614

2016-2017 Flinders University FHS Seeding Grant. S Sharma. Investigating the role of glaucoma blindness genes in retinal ganglion cell death and RBC. \$18,500

### **2017 Grant Income by Project**

2017-2021 NHMRC Centre for Research Excellence (APP1116360). D Mackey, **JE Craig**, AW Hewitt, KP Burdon, R Jamieson, J Grigg, S Macgregor. From discovery to therapy in genetic eye diseases. \$520,701.90

2017-2019 NHMRC Partnership (APP1132454.) DA Mackey, **JE Craig**, AW Hewitt, I Goldberg, **J Landers**. Targeting at risk relatives of glaucoma patients for early diagnosis and treatment (TARRGET). \$595,375

2017 Flinders Foundation Seeding Grant. **O Siggs, JE Craig**. Generating mouse models of human TMEM98-associated glaucoma using CRISPR/Cas9 mutagenesis. \$19,200

2017 Flinders University Innovation Partnership Seed Grant. **JE Craig, J Landers, E Souzeau**. Partner Organisation: Glaucoma Australia. A coordinated approach to improving visual outcomes for families of individuals with glaucoma blindness. \$75,000

2017 Flinders University Capacity-Building Research Grant. **JE Craig, J;M Gillies, S Sharma**, A Pebay, M Lawler, K Burdon, R Wong, **R Mills**. Building the foundations for a Centre of Excellence in Precision Ophthalmology. \$59,000

2017 Rebecca L. Cooper Medical Research Foundation. JE Craig. Human ocular tissue expression atlas. \$25,000

2017 Ophthalmic Research Institute of Australia Research Grant. **J Smith**. Interactions between mononuclear phagocytes and endothelial cells in human retina. \$49,850

2017 Channel 7 Children's Research Fund Research Grant. JM Carr, **JR Smith**. Definition of ability of zika virus (ZIKV) to infect placenta, brain and eye that will impact understanding

of debilitating microcephaly and macular scarring in ZIKV exposed newborns. \$74,027

2017-2019 National Health & Medical Research Council Project Grant (APP1123684) **J Smith**. Regulation of ICAM-1 expression in human retinal endothelial cells. \$565,965

2017-2018 Rebecca L. Cooper Medical Research Foundation. **J Smith**. Zika virus infection of the human eye. \$24,950

2017 Flinders Centre for Innovation in Cancer/Flinders Foundation. **J Smith**. Clues to the pathogenesis of vitreoretinal lymphoma: expression and activity of CXCL13 in the human eye. \$18,500

2017 Flinders University Faculty of Health Sciences Capacity Grant. **J Smith**. International clinical registry for vitreoretinal lymphoma. \$52,000

## Research Publications

Year	Peer-reviewed articles	Books/chapters	Letters/editorials/other	Total
2015	50	0	6	56
2016	74	5	1	80
2017*	32 to August			32 to date

\* to date, including those in press

### Publications 2016-17

#### *Refereed journal articles, 2016 calendar year*

- 1 Long-term management of panuveitis and iris heterochromia in an Ebola survivor. Shantha JG, Crozier I, Varkey JB, Draft CS, Lyon GM, Mehta A, Carlson RD, Hill CE, Kumar G, Debiec MR, Patel PS, Olsen TW, Nussenblatt RB, Martin DF, Stroher U, Uyeki TM, Ribner BS, **Smith JR**, Yeh S. *Ophthalmology*. 2016; 123:2626-2628.
- 2 Global Estimates on the Number of People Blind or Visually Impaired by Diabetic Retinopathy: A Meta-analysis From 1990 to 2010. Leasher JL, Bourne RR, Flaxman SR, Jonas JB, Keeffe J, Naidoo K, **Pesudovs K**, Price H, White RA, Wong TY, Resnikoff S, Taylor HR; Vision Loss Expert Group of the Global Burden of Disease Study. *Diabetes Care*. 2016 Sep;39(9):1643-9. doi: 10.2337/dc15-2171. Review. PMID: 27555623
- 3 Item Banking Enables Stand-Alone Measurement of Driving Ability. **Khadka J**, Fenwick EK, Lamoureux EL, **Pesudovs K**. *Optom Vis Sci*. 2016 Aug 17. [Epub ahead of print] PMID: 27536978
- 4 Effects of multifocal soft contact lenses used to slow myopia progression on quality of vision in young adults. Kang P, **McAlinden C**, Wildsoet CF. *Acta Ophthalmol*. 2016 Aug 6. doi: 10.1111/aos.13173. [Epub ahead of print] PMID: 27495880
- 5 Nature and incidence of severe limbal stem cell deficiency in Australia and New Zealand. Bobba S, Di Girolamo N, **Mills R**, Daniell M, Chan E, Harkin DG, Cronin BG, Crawford G, McGhee C, Watson S. *Clin Experiment Ophthalmol*. 2016 Aug 9. doi: 10.1111/ceo.12813. [Epub ahead of print] PMID: 27505295
- 6 Gene Therapy and Gene Editing for the Corneal Dystrophies. **Williams KA**, **Irani YD**. *Asia Pac J Ophthalmol (Phila)*. 2016 Jul-Aug;5(4):312-6. doi: 10.1097/APO.0000000000000215. PMID: 27488074
- 7 Uveitis in Children and Adolescents. Cunningham ET Jr, **Smith JR**, Tugal-Tutkun I, Rothova A, Zierhut M. *Ocul Immunol Inflamm*. 2016 Aug;24(4):365-71. doi: 10.1080/09273948.2016.1204777. PMID: 27471956

- 8 Molecular Signals Involved in Human B Cell Migration into the Retina: In Vitro Investigation of ICAM-1, VCAM-1, and CXCL13. Bharadwaj AS, **Stempel AJ**, Olivas A, Franzese SE, **Ashander LM**, **Ma Y**, **Lie S**, **Appukuttan B**, **Smith JR**. *Ocul Immunol Inflamm.* 2016 Jul 5:1-9. Doi:10.1080/09273948.2016.1180401. PMID: 27380422
- 9 Gender representation in industry ties in ophthalmology. Reddy AK, Bounds GW, Bakri SJ, Gordon LK, **Smith JR**, Haller JA, Thorne JE. *JAMA Ophthalmol* 2016; 134: 636-643.
- 10 Surveillance of adverse events associated with local anaesthesia for cataract surgery in Australia and New Zealand. Clarke J, **Mills RA**. *Clin Experiment Ophthalmol.* 2016 Jul 18. doi: 10.1111/ceo.12803. [Epub ahead of print] PMID: 27429249
- 11 Estimates of global, regional, and national incidence, prevalence, and mortality of HIV, 1980-2015: the Global Burden of Disease Study 2015. GBD 2015 HIV Collaborators, Wang H, Wolock TM, Carter A, Nguyen G, Kyu HH, Gakidou E, Hay SI, Mills EJ, Trickey A, Msemburi W, Coates MM, Mooney MD, Fraser MS, Sligar A, Salomon J, Larson HJ, Friedman J, Abajobir AA, Abate KH, Abbas KM, Razek MM, Abd-Allah F, Abdulle AM, Abera SF, Abubakar I, Abu-Raddad LJ, Abu-Rmeileh NM, Abyu GY, Adebisi AO, Adedeji IA, Adelekan AL, Adofu K, Adou AK, Ajala ON, Akinyemiju TF, Akseer N, Lami FH, Al-Aly Z, Alam K, Alam NK, Alasfoor D, Aldahri SF, Aldridge RW, Alegretti MA, Aleman AV, Alemu ZA, Alfonso-Cristancho R, Ali R, Alkerwi A, Alla F, Mohammad R, Al-Raddadi S, Alsharif U, Alvarez E, Alvis-Guzman N, Amare AT, Amberbir A, Amegah AK, Ammar W, Amrock SM, Antonio CA, Anwari P, Ärnlöv J, Artaman A, Asayesh H, Asghar RJ, Assadi R, Atique S, Atkins LS, Avokpaho EF, Awasthi A, Quintanilla BP, Bacha U, Badawi A, Barac A, Bärnighausen T, Basu A, Bayou TA, Bayou YT, Bazargan-Hejazi S, Beardsley J, Bedi N, Bennett DA, Bensenor IM, Betsu BD, Beyene AS, Bhatia E, Bhutta ZA, Biadgilign S, Bikbov B, Birlik SM, Bisanzio D, Brainin M, Brazinova A, Breitborde NJ, Brown A, Burch M, Butt ZA, Campuzano JC, Cárdenas R, Carrero JJ, Castañeda-Orjuela CA, Rivas JC, Catalá-López F, Chang HY, Chang JC, Chavan L, Chen W, Chiang PP, Chibalabala M, Chisumpa VH, Choi JY, Christopher DJ, Ciobanu LG, Cooper C, Dahiru T, Damtew SA, Dandona L, Dandona R, das Neves J, de Jager P, De Leo D, Degenhardt L, Dellavalle RP, Deribe K, Deribew A, Des Jarlais DC, Dharmaratne SD, Ding EL, Doshi PP, Driscoll TR, Dubey M, Elshrek YM, Elyazar I, Endries AY, Ermakov SP, Eshrati B, Esteghamati A, Faghmous ID, Farinha CS, Faro A, Farvid MS, Farzadfar F, Fereshtehnejad SM, Fernandes JC, Fischer F, Fitchett JR, Foigt N, Fullman N, Fürst T, Gankpé FG, Gebre T, Gebremedhin AT, Gebru AA, Geleijnse JM, Gessner BD, Gething PW, Gihwot TT, Giroud M, Gishu MD, Glaser E, Goenka S, Goodridge A, Gopalani SV, Goto A, Gugnani HC, Guimaraes MD, Gupta R, Gupta R, Gupta V, Haagsma J, Hafezi-Nejad N, Hagan H, Hailu GB, Hamadeh RR, Hamidi S, Hammami M, Hankey GJ, Hao Y, Harb HL, Harikrishnan S, Haro JM, Harun KM, Havmoeller R, Hedayati MT, Heredia-Pi IB, Hoek HW, Horino M, Horita N, Hosgood HD, Hoy DG, Hsairi M, Hu G, Huang H, Huang JJ, Iburg KM, Idrisov BT, Innos K, Iyer VJ, Jacobsen KH, Jahanmehr N, Jakovljevic MB, Javanbakht M, Jayatilake AU, Jeemon P, Jha V, Jiang G, Jiang Y, Jibat T, Jonas JB, Kabir Z, Kamal R,

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- 13 New insights into the genetics of primary open-angle glaucoma based on meta-analyses of intraocular pressure and optic disc characteristics. Springelkamp H, Iglesias AI, Mishra A, Höhn R, Wojciechowski R, Khawaja AP, Nag A, Wang YX, Wang JJ, Cuellar-Partida G, Gibson J, Cooke Bailey JN, Vithana EN, Gharahkhani P, Boutin T, Ramdas WD, Zeller T, Luben RN, Yonova-Doing E, Viswanathan AC, Yazar S, Cree AJ, Haines JL, Koh JY, **Souzeau E, Wilson JF, Amin N, Müller C, Venturini C, Kearns LS, Kang JH, NEIGHBORHOOD Consortium, Tham YC, Zhou T, van Leeuwen EM, Nickels S, Sanfilippo P, Liao J, van der Linde H, Zhao W, van Koolwijk LME, Zheng L, Rivadeneira F, Baskaran M, van der Lee SJ, Perera S, de Jong PTVM, Oostra BA, Uitterlinden AG, Fan Q, Hofman A, Tai ES, Vingerling JR, Sim X, Wolfs RCW, Teo YY, Lemij HG, Khor CC, Willemsen R, Lackner KJ, Aung T, Jansonius NM, Montgomery G, Wild PS, Young TL, **Burdon KP, Hysi PG, Pasquale LR, Wong TY, Klaver CCW, Hewitt AW, Jonas JB, Mitchell P, Lotery AJ, Foster PJ, Vitart V, Pfeiffer N, Craig JE, Mackey DA, Hammond CJ, Wiggs JL, Cheng CY, van Duijn CM, MacGregor S.** (2017) *Hum Mol Genet.* 26(2):438-53.**

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- 15 Inflammatory eye disease: pre-treatment assessment of patients prior to commencing immunosuppressive and biologic therapy: recommendations from an expert committee. Wakefield D, McCluskey P, Wildner G, Thurau S, Carr G, Chee SP, Forrester J, Dick AD, Hudson B, Lightman S, **Smith JR**, Tugal-Tutkun I, Pre-Treatment Assessment Panel. *Autoimmunity Rev* 2017 Mar;16(3):213-222. doi: 10.1016/j.autrev.2017.01.003. Epub 2017 Jan 27. PMID:28137477.
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- 17 Use of Standardization of Uveitis Nomenclature for Reporting Clinical Data at 10 Years. **Oliver GF**, Stathis RM, Spurrier NJ, **Smith JR.** *Ophthalmology* 2017 Jul;124(7):1084-1085. doi: 10.1016/j.optha.2017.03.009. Epub 2017 Mar 31 PMID:28372861.
- 18 Retinal Pigment Epithelial Cells are a Potential Reservoir for Ebola Virus in the Human Eye. **Smith JR**, Todd S, **Ashander LM**, Charitou T, **Ma Y**, Yeh S, Crozier I, Michael M, **Appukuttan B**, **Williams KA**, Lynn DJ, Marsh GA. *Trans Vis Sci Tech* 2017 Jul 14;6(4):12. doi: 10.1167/tvst.6.4.12. eCollection 2017 Jul. PMID:28721309.
- 19 Molecular responses of human retinal cells to infection with dengue virus. Carr JM, **Ashander LM**, Calvert JK, Ma Y, Aloia, A, Chee SP, **Appukuttan B**, **Smith JR.** *Mediators Inflamm* (in press September 2017).
- 20 Patient reported outcome measures in amblyopia and strabismus – a systematic review, **Kumaran SE**, **Khadka J**, **Baker R**, **Pesudovs K.** *Clin Exp Optom.* 2017 Jun 21. [Epub ahead of print] PMID:28636173 DOI:10.1111/cxo.12553.
- 21 Impact of refractive error on quality of life: a qualitative study. **Kandel H**, **Khadka J**, Goggin M, **Pesudovs K.** *Clin Exp Ophthalmol* 2017 Mar 31. doi: 10.1111/ceo.12954. [Epub ahead of print]
- 22 Questionnaires for Measuring Refractive Surgery Outcomes. **Kandel H**, **Khadka J**, Lundström M, Goggin M, **Pesudovs K.** *J Refract Surg* 2017 Jun 1;33(6):416-424.
- 23 GBD 2015 Healthcare Access and Quality Collaborators. (**Pesudovs K**) Electronic address: [cjlm@uw.edu](mailto:cjlm@uw.edu). Healthcare Access and Quality Index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990-2015: a novel analysis from the Global Burden of Disease Study 2015. *Lancet.* 2017 May 18. pii: S0140-6736(17)30818-8. doi: 10.1016/S0140-6736(17)30818-8. [Epub ahead of print]
- 24 Genome-wide association study identifies three novel loci in Fuchs endothelial corneal dystrophy. NA Afshari, RP Igo Jr, NJ Morris, D Stambolian, **S Sharma**, VL Pulagam, S Dunn, JF Stamler, BJ Truitt, J Rimmner, A Kuot, CR Croasdale, X Qin, **KP Burdon**, SA

- Riazuddin, **R Mills**, Sonja Klebe, MA Minear, J Zhao, E Balajonda, GO Rosenwasser, KH Baratz, VV Mootha, SV Patel, SG Gregory, JE Bailey-Wilson, MO Price, FW Price Jr, **JE Craig**, JH Fingert, JD Gottsch, AA Aldave, GK Klintworth, JH Lass, Yi-Ju Li, SK Iyengar (2017) *Nature Communications* 8:14898. doi: 10.1038/ncomms14898.
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- 29 Diabetic macular oedema: clinical risk factors and emerging genetic influences. **Liu E**, **Craig JE**, **Burdon K**. *Clin Exp Optom*. 2017 May 26. [Epub ahead of print] Review. doi: 10.1111/cxo.12552 PMID: 28556097.
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Akhtar F, Kosior-Jarecka E, Lukasik U, Lischinsky I, Castro V, Grossmann RP, Megevand GS, Roy S, Dervan E, Silke E, Rao A, Sahay P, Fornero P, Cuello O, Sivori D, Zompa T, Mills RA, Souzeau E, Mitchell P, Wang JJ, Hewitt AW, Coote M, Crowston JG, Astakhov SY, Akopov EL, Emelyanov A, Vysochinskaya V, Kazakbaeva G, Fayzrakhmanov R, Al-Obeidan SA, Owaidhah O, Aljasim LA, Chowbay B, Foo JN, Soh RQ, Sim KS, Xie Z, Cheong AWO, Mok SQ, Soo HM, Chen XY, Peh SQ, Heng KK, Husain R, Ho SL, Hillmer AM, Cheng CY, Escudero-Domínguez FA, González-Sarmiento R, Martinon-Torres F, Salas A, Pathanapitooon K, Hansapinyo L, Wanichwecharugruang B, Kitnarong N, Sakuntabhai A, Nguyn HX, Nguyn GTT, Nguyn TV, Zenz W, Binder A, Klobassa DS, Hibberd ML, Davila S, Herms S, Nöthen MM, Moebus S, Rautenbach RM, Ziskind A, Carmichael TR, Ramsay M, Álvarez L, García M, González-Iglesias H, Rodríguez-Calvo PP, Cueto LF, Oguz Ç, Tamcelik N, Atalay E, Batu B, Aktas D, Kasim B, Wilson MR, Coleman AL, Liu Y, Challa P, Herndon L, Kuchtey RW, Kuchtey J, Curtin K, Chaya CJ, Crandall A, Zangwill LM, Wong TY, Nakano M, Kinoshita S, den Hollander AI, Vesti E, Fingert JH, Lee RK, Sit AJ, Shingleton BJ, Wang N, Cusi D, Qamar R, Kraft P, Pericak-Vance MA, Raychaudhuri S, Heegaard S, Kivelä T, Reis A, Kruse FE, Weinreb RN, Pasquale LR, Haines JL, Thorsteinsdottir U, Jonasson F, Allingham RR, Milea D, Ritch R, Kubota T, Tashiro K, Vithana EN, Micheal S, Topouzis F, **Craig JE**, Dubina M, Sundaresan P, Stefansson K, Wiggs JL, Pasutto F, Khor CC. *Nat Genet.* 2017 Jul;49(7):993-1004. doi: 10.1038/ng.3875. Epub 2017 May 29. PMID: 28553957.

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- 32 Irani YD, Klebe S, McInnes SJP, Jasieniak M, Voelcker NH, **Williams KA**. Oral mucosal epithelial cells grown on porous silicon membrane for transfer to the rat eye. *Scientific Reports* 7: 10042 | DOI:10.1038/s41598-017-10793-1 (published online August 2017).

## Conference Presentations, 2016-7

### Dr Mona Awadalla

#### Presentations at international and national meetings

- 2016 ANZGIG, New Zealand; oral presentation titled "DNA methylation at the 9p21 glaucoma susceptibility locus is associated with normal-tension glaucoma".

### Associate Professor Celia Chen

#### Invited presentations

- 2016 31st Congress of Asia Pacific Academy of Ophthalmology, Taipei.  
2016 32nd Congress of Asia Pacific Academy of Ophthalmology (APAO).  
2017 Asia Neuro-Ophthalmology Society meeting, Seoul.  
2017 Philippine Academy of Ophthalmology meeting.  
2017 33rd Congress of Asia-Pacific Academy of Ophthalmology (APAO), Hong Kong

### Dr Paul Constable

#### Conference Presentations

- 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

- 2017 32nd Asia-Pacific Academy of Ophthalmology Congress March 2017, **Craig JE**. A precision medicine approach to reduce glaucoma blindness; Translational outcomes from the Australian and New Zealand Registry of Advanced Glaucoma.  
2017 International Conference on Ophthalmic Photography (ICOP) March 2017. **Craig JE**. Genetics of Anterior Segment Disorders.  
2017 The Association for Research in Vision and Ophthalmology (ARVO) Asia. **Craig JE**. -Glaucoma: GWAS and Functional Precision medicine strategies to reduce glaucoma blindness.

#### Presentations at international and national meetings

- 2016 Royal Australian and New Zealand College of Ophthalmologists (RANZCO) Scientific Congress November 2016. **Craig JE**, Liu E, Kaidonis G, Henderson T, Mills R, Lake S. Intravitreal dexamethasone implant versus intravitreal bevacizumab during cataract surgery for the management of diabetic maculopathy in remote Indigenous communities: preliminary results of a randomized controlled trial. (poster)  
2016 Royal Australian and New Zealand College of Ophthalmologists (RANZCO) Scientific Congress November 2016. **Craig JE**, Liu E, Ng SK, Kahawita S, Andrew NH, Henderson T, Landers J. 10 Year All-Cause Mortality and its association with vision among Indigenous Australians within Central Australia; The central Australian Ocular Health Study (poster)  
2016 Royal Australian and New Zealand College of Ophthalmologists (RANZCO) Scientific Congress November 2016. **Craig JE**, Liu E, Kaidonis G, Henderson T, Mills R, Lake S. Predictors of response to intravitreal bevacizumab for the treatment of diabetic macula oedema; preliminary results of a retrospective case series (poster)  
2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO)

2016. **Craig JE**, Thompson SW, Souma T, Siggs OM, Maurer-Stroh S, Whisenhunt KN, Wiggs JL, Pasutto F, Quiggen SE, Young TL. Mutations in a new gene cause glaucoma with variable onset. (poster)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016 **Craig JE**, Young TL, Thompson SW, Thomson BR, Siggs OM, Vimviovuvash V, Whisenhunt KN, Wiggs JL, Quaggin SE, Pasutto F. Loss of function variants in a new gene increase risk for primary congenital glaucoma with variable expressivity. (poster)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016 **Craig JE**, Zhou T, Burdon KP, Hewitt AQ, Mackey DA, Brown MA, Leo P, Healey PR, Graham SL, MacGregor . Whole exome sequencing in advanced POAG cases of GWAS associated candidate genes identifies significant enrichment of rare variants in CARD10. (poster)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016. **Craig JE**, Zhou T, Lynn D, Souzeau E, Ridge B, Ellis J, Leo P, Brown MA, Sharma S, Burdon KP. Whole exome sequencing identifies key biological pathways in primary open-angle glaucoma. (poster)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016 **Craig JE**, Mackey DA, Hewitt A, Souzeau E, Burdon KP, Gharahkahani P, MacGregor T, Law M. Return of results for Myocilin G1n368Ter. (poster)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016. **Craig JE**, Kaidonis G, Hassall M, Burdon KP, Newland HS, Henderson T, Lake S. Are indigenous Australians more likely to require vitrectomy for end stage diabetic retinopathy?: A 5 year audit of vitreoretinal surgery for diabetic retinopathy.(paper)
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO) 2016. Craig JE, Healey PR, Zheng L, Kifley A, Wang J, Burdon KP, White AJ, Liew G, Mitchell P. The relationship between family history and genetic susceptibility to open-angle glaucoma. (poster)

## **Dr Jyoti Khadka**

### **Presentations at international and national meetings**

- 2016 European Society of Cataract and Refractive Surgery Conference. Copenhagen, Denmark Pesudovs K, **Khadka J**, Prem Senthil M, Fenwick E, Lamoureux E. A novel system to measure ophthalmic quality of life: The Eye-tem Bank.
- 2016 The Association of Research in Vision and Ophthalmology. Seattle, USA. Pesudovs K, **Khadka J**. The Keratoconus Outcome Research Questionnaire: addressing a rating scale conundrum.
- 2016 The Association of Research in Vision and Ophthalmology. Seattle, US. Gothwal VK, Bharani S, Mathai A, Balakrishnan D, Chhablani J, Rani PK, Tyagi M, **Khadka J**, Pesudovs K. Vision-related Quality of Life before and after interventions for Diabetic Retinopathy.
- 2016 The Australian Society of Medical Research. Adelaide, Australia. Prem Senthil M, **Khadka J**, Pesudovs K. Quality of life impact in people with hereditary and acquired retinal diseases.
- 2016 The Australian Society of Medical Research. Adelaide, Australia. Kandel H, **Khadka J**, Pesudovs K. A pair of glasses and beyond- impact of refractive error on people well-being.
- 2017 Eye Hospital of Wenzhou University, Hangzhou, China. (Invited lecture) **Khadka J**, Pesudovs K. The Eye-tem Bank project delivering a new system to measure patient-

- reported outcome measures in eye health.
- 2017 Vision China 2017 (International Forum on the Innovation and Development of Vision Health) Hangzhou China. **Khadka J**. Publishing in high impact journals.
- 2017 Vision China 2017 (International Forum on the Innovation and Development of Vision Health). Hangzhou China. **Khadka J**, Pesudovs K. Measuring vision-specific quality of life. (Invited speaker)
- 2017 The Association of Research in Vision and Ophthalmology. Baltimore, Maryland, USA. Pesudovs K, **Khadka J**, Prem Senthil M, Kandel H, Kumaran SE, Fenwick E, EL Lamoureux. The Eye-tem Bank project: an update on development and validation.
- 2017 The Association of Research in Vision and Ophthalmology. Baltimore, Maryland, USA. Kandel H, **Khadka J**, Pesudovs K. Living experiences of people with refractive error – A qualitative study from Nepal.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017) **Khadka J**, Fenwick EK, Lamoureux EL, Pesudovs K. Applying computer adaptive testing to glaucoma-specific quality of life item banks.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017)
- 2017 Pesudovs K, **Khadka J**, Prem Senthil M, Kandel H, Kumaran SE, Fenwick E, EL Lamoureux. The future of ophthalmic patient-reported outcomes: the Eye-tem Bank project.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017) Prem Senthil M, **Khadka J**, Pesudovs K. Development of a comprehensive quality of life item bank for other vitreo-retinal diseases.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017) Kandel H, **Khadka J**, Pesudovs K. An Item bank for to measure impact of refractive error on quality of life.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017) Kumaran S, **Khadka J**, Pesudovs K. Impact of Amblyopia and Strabismus: A Qualitative exploration of Quality of Life.
- 2017 The Association of Research in Vision and Ophthalmology – ASIA (ARVO-ASIA 2017) Fenwick EK, **Khadka J**, Pesudovs K, Barnard J, Rees G, Wong TY, Lamoureux EL. Diabetic retinopathy and macular oedema quality of life item banks: development and initial evaluation using computer adaptive testing.

### **Dr Miriam Keane**

#### **Presentations at international and national meetings**

- 2016 The 33rd Annual Australia and New Zealand Cornea Society Meeting. **Keane, M.C.**, Williams, K., Smith L.W., Jones, V., & Mills, R.A.D. Australian Corneal Graft Registry report 2016.
- 2017 The 34th Annual Australia and New Zealand Cornea Society Meeting. **Keane, M.C.** Williams, K., Coffey, N., Jones, V., & Mills, R.A.D. Australian Corneal Graft Registry report 2017.

### **Associate Professor John Landers**

#### **Presentations at international and national meetings**

- 2016 Royal Australian and New Zealand College of Ophthalmologists (RANZCO) Scientific Congress November 2016. **J Landers**. The Association of Diabetic Retinopathy and 10 Year Mortality among Indigenous Australians within central Australia: The Central Australian Ocular Health Study



## **Professor Konrad Pesudovs**

### **Invited presentations**

2016 ICHOM Conference, London. Developing PROMs to have more impact.

### **Conference presentations**

- 2016 University of Houston College of Optometry. Electronic delivery of teaching – lecture replacement.
- 2017 ARVOAsia, **K Pesudovs**, Jyoti Khadka, Mallika Prem Senthil, Himal Kandel, Sheela Kumaran. The Eye-tem Bank project: an update on development and validation.
- 2017 ARVO, Baltimore, USA. **K Pesudovs**, Jyoti Khadka, Mallika Prem Senthil, Himal Kandel, Sheela Kumaran. The Eye-tem Bank project: an update on development and validation.

## **Dr Shiwani Sharma**

### **Conference presentations**

- 2016 Australian Society for Medical Research, Adelaide, A Kuot, R Mills, G Snibson, S Wiffen, R Loh, M Corbett, KP Burdon, JE Craig, **S Sharma**. Differential gene expression analysis in Fuchs' endothelial corneal dystrophy.
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting, Seattle, Washington, USA, May 1-5. Abstract: Invest Ophthalmol Vis Sci 57(12):819. T Zhou, D Lynn, E Souzeau, B Ridge, J Ellis, P Leo, MA Brown, **S Sharma**, KP Burdon, JE Craig. Whole exome sequencing identifies key biological pathways in primary open-angle glaucoma.
- 2016 XXII Biennial meeting of the International Society for Eye Research, Tokyo, Japan. A Dave, JE Craig, K Skrzypiec, M Alamein, S Quinn, KP Burdon, N Di Girolamo, RU de Iongh, **S Sharma**. The effect of interaction between EPHA2 gene and environmental risk factors on cataract development.
- 2016 RANZCO, Melbourne, Australia, Nov 19-23. Abstract: Clin Experiment Ophthalmol 44:103. T Zhou, DJ Lynn, S Pulbrook, **S Sharma**, KP Burdon, JE Craig. Human ocular tissue expression using RNASeq.
- 2017 ARVO-Asia, Brisbane. **S Sharma**, A Dave, K Skrzypiec, M Alamein, S Quinn, DA Mackey, KP Burdon, N Di Girolamo, RU de Iongh, JE Craig. Interaction between *EPHA2* gene and environmental factors modulates cataract development.
- 2017 Australian Society for Medical Research, Adelaide M Alamein, A Dave, JE Craig, K Skrzypiec, KP Burdon, RU de Iongh, **S Sharma**. The influence of genetic background and gender on Epha2-related cataract in mice

## **Professor Justine Smith**

### **International Meetings**

- 2016 General Assembly of Academia Ophthalmologica Internationalis. Guadalajara, Mexico. 2016. Invited presentation. **JR Smith**. Inaugural lecture to Academia Ophthalmologica Internationalis: Basic mechanisms of ocular toxoplasmosis.
- 2016 Association for Research in Vision and Ophthalmology Annual Meeting (Sunday Symposium). Seattle, WA, USA. 2016. Invited presentation. **JR Smith**. Update on mechanisms of human ocular toxoplasmosis.
- 2016 Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, WA, USA. 2016PE 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. .

- 2016 Congress of the International Society for Advancement of Cytometry). Seattle, WA, USA. 2016. Washington JM, Ma Y, Macardle C, Bailey S, **Smith JR**. Monocyte to macrophage differentiation: an in vitro model of human non-infectious posterior uveitis. CYTO2016 (31<sup>st</sup>)
- 2016 International Congress of Immunology. Melbourne, Australia. 2016. AJ Stempel, AS Bharadwaj, A Olivas, SE Franzese, LM Ashander, Y Ma, S Lie, B Appukuttan, **JR Smith**. Molecular signals involved in human B cell migration into the retina.
- 2017 32<sup>nd</sup> Asia Pacific Academy of Ophthalmology Congress. Singapore. 2017. Invited presentation. **JR Smith**. Translational studies of human infectious uveitis.
- 2017 Global Ocular Inflammation Workshops: Asia Pacific Intraocular Inflammation Study Group. Bali, Indonesia. To be held in April 2017. Invited presentation. **JR Smith**. Pearls and pitfalls in the management of posterior/panuveitis.
- 2017 Global Ocular Inflammation Workshops: 6<sup>th</sup> International Workshop on Ocular Sarcoidosis. Bali, Indonesia. To be held in April 2017. Invited presentation. **JR Smith**. IWOS criteria for ocular sarcoidosis. Summary & Discussion: where we are and where we need to be.
- 2017 Association for Research in Vision and Ophthalmology Annual Meeting. Baltimore, MD, USA. 2017. JM Furtado, S Arruda, M Simões, D Garcia, M Araújo, B Vieira, MW Rodrigues Jr, **JR Smith**. Clinical manifestations and visual prognosis of ocular toxoplasmosis.
- 2017 Association for Research in Vision and Ophthalmology Annual Meeting. Baltimore, MD, USA. 2017. EJ Lee, PE Snow, JM Furtado, RJ Napier, G Benedek, BR Brown, EM Vance, J Dugan, PB Silver, **JR Smith**, RR Caspi, HL Rosenzweig. Deficiency in Nod2 is associated with dysregulation of Th17-based immune responses in the eye.
- 2017 European School of Advanced Studies in Ophthalmology – Asia Module in Uveitis. Singapore. 2017. Invited presentation. **JR Smith**. What's new in non-infectious uveitis.
- 2017 European School of Advanced Studies in Ophthalmology – Asia Module in Uveitis. Singapore. 2017. Invited presentation. **JR Smith**. Approach to treatment of non-infectious uveitis.
- 2017 European School of Advanced Studies in Ophthalmology – Asia Module in Uveitis. Singapore. 2017. Invited presentation. **JR Smith**. What's new in infectious uveitis.
- 2017 International Ocular Inflammation Society Congress. Lausanne, Switzerland. 2017. Invited presentation. **JR Smith**. Treatment challenges - intravitreal chemotherapy and systemic medical therapies.
- 2017 6<sup>th</sup> Indo-China Ocular inflammation and Infection Meeting (hosted by Malaysian Ophthalmological Society). Kuala Lumpur, Malaysia. 2017. Invited presentation. **JR Smith**. Biologics: when and how?
- 2017 "Next Generation Thinking and Therapy for Inflammatory Eye Disease" International Meeting. Munich, Germany. 2015. Invited presentation. **JR Smith**. Blocking mediators of inflammatory pathways.
- 2017 ARVO-Asia. Brisbane, Australia. 2017. Y Ma, L Ashander, J Calvert, A Aloia, B Appukuttan, J Carr, **J Smith**. Mechanisms of dengue virus retinopathy: in vitro studies in human retinal endothelial and pigment epithelial cells.
- 2017 ARVO-Asia. Brisbane, Australia. 2017. L Ashander, Y Ma, **J Smith**, B Appukuttan. Reference genes for quantitative RT-PCR studies of human retinal endothelial cell pathobiology vary by stimulus and individual.

### National Meetings

- 2016 Philippines Academy of Ophthalmology Annual Convention. Manila, Philippines.

2016. Plenary talk. **JR Smith**. Standardization of Uveitis Nomenclature.
- 2016 Philippines Academy of Ophthalmology Annual Convention. Manila, Philippines. 2016 Invited presentation JR Smith. 10 Tips for good clinical practice of uveitis.
- 2016 Philippines Academy of Ophthalmology Annual Convention. Manila, Philippines. 2016. Invited presentation JR Smith. Ocular toxoplasmosis and other infectious retinitis..
- 2016 Philippines Academy of Ophthalmology Annual Convention. Manila, Philippines. 2016. Invited presentation. **JR Smith**. Uveitis in HIV.
- 2016 Philippines Academy of Ophthalmology Annual Convention. Manila, Philippines. 2016. Invited presentation. **JR Smith**. New treatments for non-infectious uveitis.
- 2016 48<sup>th</sup> Congress of Royal Australian and New Zealand College of Ophthalmologists. Melbourne, Australia. 2016. Invited presentation. **JR Smith**. Regulation of ICAM-1 expression in human retinal endothelial cells.
- 2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. 2017. Invited presentation. **JR Smith**. Management of uveitis: 10 tips for good clinical practice.
- 2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. 2017. Invited presentation. **JR Smith**. Infectious uveitis: what is new?
- 2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. 2017. Invited presentation. **JR Smith**. Translational research on ocular toxoplasmosis.
- 2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. 2017. Invited presentation. **JR Smith**. Scleritis update.
- 2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. 2017. Invited presentation. **JR Smith**. Vitreoretinal lymphoma update.
- 2017 Uveitis Society of India 2017 Congress. Kolkata, India. Invited presentation. **JR Smith**. Basics update: systemic therapy.
- 2017 Uveitis Society of India 2017 Congress. Kolkata, India. Invited presentation. **JR Smith**. Autoinflammation and the eye.

### **Professor Keryn Williams**

#### **Invited presentations**

- 2016 33rd Annual Cornea Society and Eye Bank Meeting, Melbourne The Doug Coster Lecture: Putting science into the art of corneal transplantation.

#### **Presentations/Posters by student members and research assistants**

- 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.
- 2016 RANZCO 2016, (Best Paper session) **O Siggs**.

- 2016 HGSA 2016 Genomics Workshop. **O Siggs**.
- 2016 Australian Society for Medical Research SA Scientific Meeting. **O Siggs**.
- 2016 International Summer School on Technology Transfer in Life Science. 2016, Dresden. **Yazad Irani**.
- 2016 Royal Australian New Zealand College of Ophthalmologist (RANZCO) Conference. **J Estevez**. The Association of Diabetic Retinopathy, Visual Impairment and 10-Year Mortality among Indigenous Australians: The Central Australian Ocular Health Study.
- 2016 Allergan National Meeting (Sydney). **E Liu**. Steroids & Inflammation: The Management of Diabetic Macula Oedema.
- 2016 RANZCO. **E Liu**. 3x poster presentations: 10 Year All-Cause Mortality among Indigenous Australians within central Australia: The Central Australian Ocular Health Study" "Intravitreal dexamethasone implant versus intravitreal bevacizumab during cataract surgery for the management of diabetic maculopathy in remote Indigenous communities: preliminary results of a randomized controlled trial" "Predictors of response to intravitreal bevacizumab for the treatment of diabetic macula oedema; preliminary results of a retrospective case series"
- 2017 SA branch RANZCO. **E Liu**. Case presentation
- 2017 Asia ARVO. **E Liu**. Oral presentation: "Predictors of response to intravitreal bevacizumab for the treatment of diabetic macula oedema; preliminary results of a retrospective case series"
- 2017 ARVO. **E Liu**. Poster presentation: "Predictors of response to intravitreal bevacizumab for the treatment of diabetic macula oedema"
- 2017 The Australian Society for Medical Research SA Scientific Meeting **Y Irani**, E Pulford, L Mortimer, S Klebe, K Williams. Sex differences in corneal neovascularisation in response to superficial corneal cautery in the rat.
- 2017 Flinders Health Research Week. **Mallika Prem Senthil**, Jyoti Khadka, Konrad Pesudovs. Psychometric assessment of hereditary retinal diseases quality of life item banks –oral presentation.
- 2017 Australian Society for Medical Research (ASMR). **Mallika Prem Senthil**, Jyoti Khadka, Konrad Pesudovs. Development of comprehensive quality of life item banks for retinal diseases.
- 2017 Association for Research in Vision and Ophthalmology (ARVO) - Asia, **Mallika Prem Senthil**, Jyoti Khadka, Konrad Pesudovs. Development of comprehensive quality of life item banks for retinal diseases.
- 2017 ARVO 2017 Annual Meeting Paper. **H Kandel**. (Oral presentation) Living experiences of people with refractive error – A qualitative study from Nepal.
- 2017 ARVO-Asia. **H Kandel**. (Oral presentation) An Item bank to measure impact of refractive error on quality of life.

## Awards, Prizes and Esteem Factors

### **Professor Justine Smith**

- 2016 Eddie Donaldson Medal & Memorial Lecture, Sydney Eye Hospital Alumni Association 11<sup>th</sup> Biennial Meeting
- 2016- Executive Vice President, ARVO
- 2016 Elected Member, Academia Ophthalmologica Internationalis
- 2017 Rebecca L. Cooper Foundation Kevin Cahill Award
- 2017 Science & Technology Australia Superstars of STEM

### **Professor Jamie Craig**

- 2016 Member, ORIA Research Advisory Committee

### **Professor Konrad Pesudovs**

- 2016 President, Australian College of Optometry

### **Emeritus Professor Keryn Williams**

- 2016 Doug Coster Lecturer, 33<sup>rd</sup> ANZ Cornea & Eye Bank Meeting, Melbourne
- 2016 Elected Fellow, Australian Academy Health & Medical Sciences (August)
- 2017 Zonta Club of Adelaide Inc Women of Achievement Award (29-03-2017) (for Outstanding Achievement in Health)
- 2017 Honorary Life Membership, Transplantation Society of Australia and New Zealand
- 2017 Companion in the General Division of the Order of Australia (26-01-2017)

### **Emeritus Professor Doug Coster**

- 2016 Gerard Crock Lecturer, Melbourne (October).

### **Mr Tony Phillips**

- 2016 Global Speciality Lens Symposium - Lifetime Achievement Award for Contact Lens Education.

### **Student members and Early-Career Researchers**

- 2016 Cole Eye Institute Imaging Summit Fellows Scholarship – **G Kaidonis**
- 2016 Flinders International Conference Travel Grant – **T Zhou**
- 2016 International Summer School on Technology Transfer in Life Sciences, Dresden – **Y Irani**
- 2016 Flinders University - All Staff Opportunity Scheme – **Emmanuelle Souzeau**
- 2016 Executive Dean's RHD Student Publication Award -- **Emmanuelle Souzeau**
- 2016 FUSA RHD Student Publication Award– **Emmanuelle Souzeau**
- 2016 Falling Walls Lab Competition – Finalist – **Shervi Lie**
- 2016 Fresh Science 2016 Finalist – **Mona Awadalla**
- 2016 Research Higher Degree Student Publication Award - **Mallika Prem Senthil**
- 2016 FUSA RHD Student Publication Award - **Ebony Liu**
- 2017 Asia-ARVO student travel grant, Brisbane - **Mallika Prem Senthil**
- 2017 International Travel Grant for ARVO meeting, Baltimore, USA - **Himal Kandel**
- 2017 Travel Grant for Asia-ARVO meeting, Brisbane, Australia - **Himal Kandel**
- 2017 Selection as ARVO Advocacy and Outreach Expert - **Himal Kandel**

## Research Higher Degree Enrolments and Completions

**2016** *Completions* Sharhbanou Javadiyan  
*Load PhD students* Georgia Kaidonis (thesis accepted by external examiners)  
Tiger Zhou  
Mallika Prem Sathil  
Andrew Stempel  
Himal Kandel

**2017** *Load PhD students* Tiger Zhou  
Mallika Prem Sathil  
Sheela Kumaran  
Andrew Stempel  
Himal Kandel  
Ebony Liu  
Genevieve Oliver  
Emmanuelle Souzeau (PhD submitted for examination)

In addition, Dr Stewart Lake is enrolled in a PhD through the College of Science and Engineering.

## Centre Membership, 2016-7

Professor Jamie Craig - Director

### Senior members

Dr Binoy Appukuttan (part-time until Dec 2016)

Dr Paul Badenoch

Associate Professor Celia Chen (part-time)

Associate Professor John Landers (part-time)

Dr Yuefang Ma

Associate Professor Richard Mills (part-time)

Professor Konrad Pesudovs

Dr Shiwani Sharma

Professor Justine Smith

Associate Professor Rod Watkins

Emeritus Professor Keryn Williams

### Mid-career members

Dr Paul Constable

Dr Miriam Keane

Dr Jyoti Khadka

### Early-career members

Dr Farshad Abedi

Dr Mona Awadalla

Mr Jose Estevez Bordon

Dr Sharhbanou (Shari) Javadiyan (part-time)

Dr Yazad Irani

Dr Shervi Lie (until Dec 2016)

Dr Owen Siggs (part-time)

Dr Elise Rochet (from Sept 2017)

### Student members

Ms Abby Dawson (Hons)

Dr Georgia Kaidonis

Mr Himal Kandel

Ms Sheela Kumaran

Dr Stewart Lake

Dr Ebony Liu

Dr Genevieve Oliver (from 2017)

Dr Mallika Prem Sathil

Ms Emmanuelle Souzeau

Mr Andrew Stempel

Dr Tiger Zhou

**Research Assistants**

Ms Susan Aldhous  
Mr Liam Ashander  
Ms Nora Coffey (part-time)  
Ms Lauren Mortimer (part-time until Dec 2016)  
Ms Emmanuelle Souzeau (part-time)  
Ms Louise Wilson Smith (until April 2016, part-time)  
Ms Jennifer Washington (part-time)

**Adjunct members (research technical staff)**

Mrs Victoria Jones (part-time)  
Mrs Kirsty Kirk (part-time)  
Mrs Lefta Leonardos (part-time)  
Ms Bronwyn Ridge (part-time)

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

Mrs Tamme Golding-Holbrook  
Dr Shilpa Kuruvilla (to August 2016)  
Ms Cecily Lawson  
Dr Raymond Loh  
Dr Niladri Saha  
Dr Deepa Taranath  
Dr Jane Wells

**Affiliate, external and emeritus members**

Dr Helen Brereton (retired)  
A/Professor Kathryn Burdon (external)  
Emeritus Professor Douglas Coster (retired)  
A/Professor Sonja Klebe (affiliate)  
Dr Colm McAlinden (external)  
Dr Roman Serebrianik (external)

**Research Development Officer**

Ms Deb Sullivan



## **Management Structure**

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

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 initiatives such as the 2017 Eye and Vision Collaborators' Day, and to consider joint external grant applications.

### Statement of Income and Expenditure: 2016

<b>Income</b>	\$
Income from DVCR	\$80,000
Income from Faculty	\$20,000
Income from other sources (donations, gifts, prizes etc.)	
<b>Total</b>	<b>\$100,000</b>

<b>Expenses</b>	Cost	HEO Level	FTE
Administrative staff	\$97,758.00	HEO6	1.0
Research staff			
Research Development Costs (eg contracted assistance)			
Conference/event support			
Marketing			
Stipends (Students)			
Other research support			
<b>Total</b>	<b>\$97,758.00</b>		

\* Funds brought forward from 2015 = \$1,457

## Centre Seminar Program 2016

DATE	SPEAKER	PRESENTATION
22 March	Dr Georgia Kaidonis	Final PhD Seminar – Epidemiological & molecular risk factors for diabetic retinopathy blindness
29 March	Prof Jamie Craig	Department Update
5 April	Ms Leila Mohammadi Medical Liaisons Librarian, FUSA	A systematic approach to Literature searching: Ophthalmology and Vision Science
12 April	Prof Justine Smith ARC Future Fellow Eye & Vision Health	Research Program Update
19 April	Dr Miriam Keane	ACGR
26 April	Ms Leila Mohammadi	Endnote training
3 May	No meeting	
10 May	Dr Richard Mills & Prof Jamie Craig	Transforming Health Update
17 May	Dr David Sia Flinders Ophthalmology	Classification of anterior segment dysgenesis
24 May	Dr Tiger Zhou	Update from ARVO Conference
31 May	Dr Mona Awadalla	Update of ANZGIG meeting
7 June	Dr Paul Badenoch	Investigating the infected eye, here and now
14 June	Dr Jude Fitzgerald Flinders Ophthalmology	Role of OCT in glaucoma management
21 June	Mr Stephen Pulbrook	Eye Bank update; how we have developed
28 June	No meeting	
5 July	Prof Keryn Williams	A week in the Galapagos Islands
12 July	Semester Break	
19 July	Semester Break	
26 July	Dr Shahriar Amjadi Flinders Ophthalmology	Review of either corneal endothelium
2 August	Dr Stephen Tran FUSA	Intravitreal Injection Audit
9 August	Dr Richard Mills Flinders Ophthalmology	Long-term outcomes of corneal grafts for keratoconus

16 August	Mr Andrew Stempel Eye & Vision Health, FUSA	PhD year 1 progress report
23 August	Dr Stewart Lake Flinders Ophth/FUSA	OCT and Retinal Topography
30 August	No meeting	
6 September	Dr Tim Greenwell Flinders Eye Centre	Update on astigmatism and Toric IOL's
13 September	No meeting	
20 September	Dr Jaz Aujla Flinders Eye Centre	Angioplex OCT Software
27 September	Cancelled	
4 October	No meeting	
11 October	Anthony Francis CEO/Director Flinders Partners	Creating Commercial Partnerships
18 October	No meeting	
25 October	A/Prof Drew Evans Thin Film Coating Group Future Industries Institute Uni of South Australia	The Smart contact Lens
1 November	No meeting	
8 November	Dr Shiwani Sharma FCOEVR	Conference Report – International Society for Eye Research Meeting
15 November	Ms Emmanuelle Souzeau FCOEVR	PhD report – Genetic Counselling for Glaucoma: Lessons Learned from Transitional Research
22 November	RANZCO	
29 November	Cancelled	
5 December	No meeting	
13 December	Ophthalmology Members	RANZCO 48TH Annual Congress – Flinders Ophthalmology Speaker Presentations