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-Presiden-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

<table>
<thead>
<tr>
<th>Total Grant Funding: 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amount</strong></td>
</tr>
<tr>
<td>Cat 1</td>
</tr>
<tr>
<td>RSO Data</td>
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<tr>
<td>FCOEVR Data*</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Granting Body</th>
<th>Lead CI*</th>
<th>Amount</th>
<th>2016 Allocation</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-18</td>
<td>NHMRC Project Grant</td>
<td>JL Wilkinson - Berka (JE Smith CI-B)</td>
<td>$823,372</td>
<td>$37,000</td>
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</tr>
<tr>
<td>2015-19</td>
<td>NHMRC Centre for Research Excellence</td>
<td>A Keech (JE Craig CI-G)</td>
<td>$2,479,298</td>
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<td>Funding commencing 2017</td>
</tr>
<tr>
<td>2015-19</td>
<td>NHMRC Centre for Research Excellence</td>
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<tr>
<td>2014-17</td>
<td>ARC Future Fellowship</td>
<td>JR Smith</td>
<td>$989,144</td>
<td>$248,835</td>
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<tr>
<td>2014-16</td>
<td>NHMRC Project Grant</td>
<td>JR Smith</td>
<td>$445,505</td>
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<tr>
<td>2014-18</td>
<td>NHMRC Practitioner Fellowship</td>
<td>JE Craig</td>
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<tr>
<td>2013-17</td>
<td>NHMRC Project Grant</td>
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<tr>
<td>2012-16</td>
<td>NHMRC Centre for Research Excellence</td>
<td>D Mackey (K Burdon CI-B, JE Craig CI-D)</td>
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<tr>
<td>2015-16</td>
<td>NHMRC Clinical Research Scholarship</td>
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<tr>
<td>2014-16</td>
<td>Australian Organ &amp; Tissue Donation * Transplantation Authority</td>
<td>KA Williams</td>
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<tr>
<td>2014-16</td>
<td>Lions Medical Research Foundation Scholarship</td>
<td>T Zhou</td>
<td>$105,000</td>
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<td>2016-18</td>
<td>NHMRC Project Grant</td>
<td>JE Craig</td>
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<tr>
<td>2016-18</td>
<td>NHMRC Project Grant</td>
<td>KP Burdon (R Mills CI-D, S Sharma CI-E)</td>
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<tr>
<td>2016</td>
<td>FUSA DVC-R</td>
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<td>2016</td>
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<td>2016</td>
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<tr>
<td>2016</td>
<td>FUSA FMNHS Top Up Grant</td>
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<tr>
<td>Year</td>
<td>Granting Body</td>
<td>Lead CI*</td>
<td>Amount</td>
<td>2016 Allocation</td>
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<td>2016</td>
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<td>2016</td>
<td>FMC Foundation Seeding Grant</td>
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<tr>
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<td>FUSA DVC-R Innovation Partnership Seeding Grant</td>
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<td>2016</td>
<td>FUSA FHS Near Miss Grant</td>
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<tr>
<td>2016</td>
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<td>2016</td>
<td>FUSA CRG Grant</td>
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<tr>
<td>2016-17</td>
<td>FUSA FHS Seed Grant</td>
<td>J Smith</td>
<td>$18,000</td>
<td>$18,000</td>
<td></td>
</tr>
</tbody>
</table>

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)


2013-2016, 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)


2015-2016 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 # 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

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 University Faculty of Health Sciences Capacity Grant. J Smith. International clinical registry for vitreoretinal lymphoma. $52,000
Research Publications

<table>
<thead>
<tr>
<th>Year</th>
<th>Peer-reviewed articles</th>
<th>Books/chapters</th>
<th>Letters/editorials/other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>50</td>
<td>0</td>
<td>6</td>
<td>56</td>
</tr>
<tr>
<td>2016</td>
<td>74</td>
<td>5</td>
<td>1</td>
<td>80</td>
</tr>
<tr>
<td>2017*</td>
<td>32 to August</td>
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<td>32 to date</td>
</tr>
</tbody>
</table>

* to date, including those in press

Publications 2016-17

Refereed journal articles, 2016 calendar year


Genetic Association at the 9p21 Glaucoma Locus Contributes to Sex Bias in Normal-Tension Glaucoma.


42 Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. Bailey JN, Loomis SJ, Kang JH,


Books/Book Chapters 2016


**Refereed journal articles, 2017 calendar year**


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 Rimmler, A Kuot, CR Croasdale, X Qin, KP Burdon, SA


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 Philippine Academy of Ophthalmology meeting.
2017 33nd Congress of Asia-Pacific Academy of Ophthalmology (APAO), Hong Kong

Dr Paul Constable
Conference Presentations

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.

Presentations at international and national meetings
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 The Association for Research in Vision and Ophthalmology Annual Meeting (ARVO)


**Dr Jyoti Khadka**  
**Presentations at international and national meetings**


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.


Dr Miriam Keane
Presentations at international and national meetings


Associate Professor John Landers
Presentations at international and national meetings

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.

Dr Shiwani Sharma
Conference presentations
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
2017 Global Ocular Inflammation Workshops: 6th 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.

National Meetings
2016. **Plenary talk. JR Smith.** Standardization of Uveitis Nomenclature.


2016 48th Congress of Royal Australian and New Zealand College of Ophthalmologists. Melbourne, Australia. **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. **Invited presentation. JR Smith.** Infectious uveitis: what is new?

2017 XX Congress of Brazilian Society of Uveitis. Belo Horizonte, Brazil. **Invited presentation. JR Smith.** Translational research on ocular toxoplasmosis.


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 RANZCO 2016, (Best Paper session) **O Siggs.**
2016  Australian Society for Medical Research SA Scientific Meeting. O Siggs.
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  ARVO. E Liu. Poster presentation: "Predictors of response to intravitreal bevacizumab for the treatment of diabetic macula oedema"
Awards, Prizes and Esteem Factors

Professor Justine Smith
2016  Eddie Donaldson Medal & Memorial Lecture, Sydney Eye Hospital Alumni Association 11th 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, 33rd 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

<table>
<thead>
<tr>
<th>Year</th>
<th>Load PhD students</th>
</tr>
</thead>
</table>
| 2016 | Sharbanou Javadiyan  
      | Georgia Kaidonis (thesis accepted by external examiners)  
      | Tiger Zhou  
      | Mallika Prem Sathil  
      | Andrew Stempel  
      | Himal Kandel |
| 2017 | 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

<table>
<thead>
<tr>
<th>Income</th>
<th>$</th>
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</thead>
<tbody>
<tr>
<td>Income from DVCNR</td>
<td>$80,000</td>
</tr>
<tr>
<td>Income from Faculty</td>
<td>$20,000</td>
</tr>
<tr>
<td>Income from other sources (donations, gifts, prizes etc.)</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$100,000</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Expenses</th>
<th>Cost</th>
<th>HEO Level</th>
<th>FTE</th>
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</thead>
<tbody>
<tr>
<td>Administrative staff</td>
<td>$97,758.00</td>
<td>HEO6</td>
<td>1.0</td>
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<tr>
<td>Research staff</td>
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<tr>
<td>Research Development Costs (eg contracted assistance)</td>
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<td></td>
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<tr>
<td>Conference/event support</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Stipends (Students)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Other research support</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$97,758.00</strong></td>
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</table>

* Funds brought forward from 2015 = $1,457
### Centre Seminar Program 2016

<table>
<thead>
<tr>
<th>DATE</th>
<th>SPEAKER</th>
<th>PRESENTATION</th>
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<tbody>
<tr>
<td>22 March</td>
<td>Dr Georgia Kaidonis</td>
<td>Final PhD Seminar – Epidemiological &amp; molecular risk factors for diabetic retinopathy blindness</td>
</tr>
<tr>
<td>29 March</td>
<td>Prof Jamie Craig</td>
<td>Department Update</td>
</tr>
<tr>
<td>5 April</td>
<td>Ms Leila Mohammadi, Medical Liaisons Librarian, FUSA</td>
<td>A systematic approach to Literature searching: Ophthalmology and Vision Science</td>
</tr>
<tr>
<td>12 April</td>
<td>Prof Justine Smith, ARC Future Fellow, Eye &amp; Vision Health</td>
<td>Research Program Update</td>
</tr>
<tr>
<td>19 April</td>
<td>Dr Miriam Keane</td>
<td>ACGR</td>
</tr>
<tr>
<td>26 April</td>
<td>Ms Leila Mohammadi</td>
<td>Endnote training</td>
</tr>
<tr>
<td>3 May</td>
<td>No meeting</td>
<td></td>
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<tr>
<td>10 May</td>
<td>Dr Richard Mills &amp; Prof Jamie Craig</td>
<td>Transforming Health Update</td>
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<tr>
<td>17 May</td>
<td>Dr David Sia, Flinders Ophthalmology</td>
<td>Classification of anterior segment dysgenesis</td>
</tr>
<tr>
<td>24 May</td>
<td>Dr Tiger Zhou</td>
<td>Update from ARVO Conference</td>
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<tr>
<td>31 May</td>
<td>Dr Mona Awadalla</td>
<td>Update of ANZGIG meeting</td>
</tr>
<tr>
<td>7 June</td>
<td>Dr Paul Badenoch</td>
<td>Investigating the infected eye, here and now</td>
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<tr>
<td>14 June</td>
<td>Dr Jude Fitzgerald, Flinders Ophthalmology</td>
<td>Role of OCT in glaucoma management</td>
</tr>
<tr>
<td>21 June</td>
<td>Mr Stephen Pulbrook</td>
<td>Eye Bank update; how we have developed</td>
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<tr>
<td>28 June</td>
<td>No meeting</td>
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<tr>
<td>5 July</td>
<td>Prof Keryn Williams</td>
<td>A week in the Galapagos Islands</td>
</tr>
<tr>
<td>12 July</td>
<td>Semester Break</td>
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<tr>
<td>19 July</td>
<td>Semester Break</td>
<td></td>
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<tr>
<td>26 July</td>
<td>Dr Shahriar Amjadi, Flinders Ophthalmology</td>
<td>Review of either corneal endothelium</td>
</tr>
<tr>
<td>2 August</td>
<td>Dr Stephen Tran, FUSA</td>
<td>Intravitreal Injection Audit</td>
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<tr>
<td>9 August</td>
<td>Dr Richard Mills, Flinders Ophthalmology</td>
<td>Long-term outcomes of corneal grafts for keratoconus</td>
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<tr>
<td>Date</td>
<td>Speaker/Presenter</td>
<td>Topic/Meeting Details</td>
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<tr>
<td>--------------</td>
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<tr>
<td>16 August</td>
<td>Mr Andrew Stempel</td>
<td>PhD year 1 progress report</td>
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<tr>
<td></td>
<td>Eye &amp; Vision Health, FUSA</td>
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<tr>
<td>23 August</td>
<td>Dr Stewart Lake</td>
<td>OCT and Retinal Topography</td>
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<td></td>
<td>Flinders Ophth/FUSA</td>
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<td>30 August</td>
<td>No meeting</td>
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<tr>
<td>6 September</td>
<td>Dr Tim Greenwell</td>
<td>Update on astigmatism and Toric IOL’s</td>
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<tr>
<td></td>
<td>Flinders Eye Centre</td>
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<tr>
<td>13 September</td>
<td>No meeting</td>
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<tr>
<td>20 September</td>
<td>Dr Jaz Aujla</td>
<td>Angioplex OCT Software</td>
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<tr>
<td></td>
<td>Flinders Eye Centre</td>
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<tr>
<td>27 September</td>
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<tr>
<td>4 October</td>
<td>No meeting</td>
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<tr>
<td>11 October</td>
<td>Anthony Francis</td>
<td>Creating Commercial Partnerships</td>
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<tr>
<td></td>
<td>CEO/Director</td>
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<tr>
<td></td>
<td>Flinders Partners</td>
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<tr>
<td>18 October</td>
<td>No meeting</td>
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<tr>
<td>25 October</td>
<td>A/Prof Drew Evans</td>
<td>The Smart contact Lens</td>
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<tr>
<td></td>
<td>Thin Film Coating Group</td>
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<tr>
<td></td>
<td>Future Industries Institute</td>
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<tr>
<td></td>
<td>Uni of South Australia</td>
<td></td>
</tr>
<tr>
<td>1 November</td>
<td>No meeting</td>
<td></td>
</tr>
<tr>
<td>8 November</td>
<td>Dr Shiwani Sharma</td>
<td>Conference Report – International Society for Eye Research Meeting</td>
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<tr>
<td></td>
<td>FCOEVR</td>
<td></td>
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<tr>
<td>15 November</td>
<td>Ms Emmanuelle Souzeau</td>
<td>PhD report – Genetic Counselling for Glaucoma: Lessons Learned from Transitional Research</td>
</tr>
<tr>
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<td>FCOEVR</td>
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<tr>
<td>22 November</td>
<td>RANZCO</td>
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<tr>
<td>29 November</td>
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<tr>
<td>5 December</td>
<td>No meeting</td>
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<tr>
<td>13 December</td>
<td>Ophthalmology Members</td>
<td>RANZCO 48TH Annual Congress – Flinders Ophthalmology Speaker Presentations</td>
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