



RESEARCH UNITS, CENTRES AND INSTITUTES

Annual Report Template

Please refer to the University of Auckland Policy on Research Units, Centres and Institutes for more information on reporting and accountability requirements (clause 2.5). A copy of this policy is available from the University Policy Register.

Section 1a - IDENTIFICATION INFORMATION:

Title of Unit, Centre or Institute:	New Zealand National Eye Centre - NZ-NEC
Name of Director:	Professor Charles McGhee
Name of Deputy Director:	Professor Paul Donaldson

Section 1b – ENDORSEMENT OF REPORT:

Signatures:	<i>Please sign in appropriate space below</i>
Professor Charles McGhee - Director (Required for all Units/Centres/Institutes)	
Professor Charles McGhee - Head of Department (Required only for Department/School Units)	
Dean (Required for Faculty/University Centres/Institutes)	

Section 2 – ADVISORY BOARDS AND MEETING DATES:

Names of Oversight Advisory Board members (for Faculty and University Centres that have Oversight Boards)	
Names of Expert Advisory Board members (for Faculty and University Centres that have Expert Advisory Boards)	
Names of Management Committee Members (for University and Faculty Centres)	<p>Professor Charles McGhee</p> <p>Professor Paul Donaldson</p> <p>Professor Steven Dakin</p> <p>Sue Raynel – Manager NZ-NEC</p> <p>Hutokshi Chinoy – Administrative Manager</p>
Dates of advisory board and management committee meetings that took place during the year	<p>Committee members have had several meetings during the year specifically in relation to collaborative research, HRC funding applications, and teaching / glaucoma credentialing. In addition there have been informal networking at monthly NZ-NEC seminars (N= 8)</p>

Section 3 – PARTICIPATING MEMBERS AND EMPLOYEES/STUDENTS:

Names and Departments of participating members	<ul style="list-style-type: none"> • Department of Ophthalmology, Faculty of Medical and Health Sciences; • School of Optometry and Vision Science; • Molecular Vision Laboratory. <p>Affiliated members: New Zealand National Eye Bank; Glaucoma New Zealand; RANZCO Clinical and Experimental Ophthalmology; Department of Anatomy with Radiology; University of Auckland Bio-engineering Institute</p>
List names, positions, and FTEs of all staff employed and postgraduate students involved in the Unit or Centre	<p>No staff are employed directly by NZ-NEC but provide assistance at discretion of the Departmental HoD's.</p> <p>See appendix for list of staff within NZ-NEC</p>

Section 4 – INTRODUCTION:

<p>Provide here a brief introduction to the report (maximum of 300 words)</p>	<p>The recommendations from the 2016 review of NZ-NEC are utilised to guide on-going development within the centre</p> <p>Members of NZ-NEC have published 124 peer reviewed papers and 1 book chapter (N=126) in 2019</p> <p>In 2019 the members of the NZ-NEC, either individually or collaboratively, were successful in attaining research funding in excess NZ\$6,800,000.</p> <p>\$1,760,087 HRC grants \$1,632,000 Marsden/Royal Society grants, \$1,067,014 Industry funding mainly via UniServices, \$1,493,755 from ADHB (mainly in fellowship grants. Funds are for 2019-2022).</p> <p>A collaborative HRC programme grant has been resubmitted in 2019 following positive feedback and getting to interview stage in 2018.</p> <p>10 PhD's, 4 MD's and 2 BMedSci(Hons) completions</p> <p>PBRF success with 7 researchers receiving a top-ranking 'A' grade</p>
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Section 5 – AIMS, GOALS AND FUTURE PLANS:

<p>a. General Aims:</p> <p>Briefly describe the general aims (plans and objectives/goals) of the unit or centre. Identify how they address the University and Faculty Strategic Plan.</p>	<p>Vision: to eliminate preventable blindness and reduce visual impairment</p> <p>Mission: to become a foremost international vision research, clinical and teaching centre through excellence, innovation and collaboration</p> <p>Goals: To develop and increase the profile of eye health, vision research and education – in New Zealand/Aotearoa and internationally by:</p> <ul style="list-style-type: none"> • Applied and basic laboratory research • Clinical research and clinical services • Application of research into practice • Innovation • Collaboration • Teaching and Learning • Community Outreach
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<p>b. Goals for Reporting Year:</p> <p>Describe the specific goals for the reporting year.</p>	<ol style="list-style-type: none"> 1. Continue with expanding community programmes 2. Increase our research collaborations within UoA, nationally and internationally, including
<p>c. Plans for Upcoming Year:</p> <p>Outline the plans for the next year. Identify any resource implications.</p>	<ol style="list-style-type: none"> 1. Continuing to build research capacity eye health equity. 2. Expand specialist skill base within NZ-NEC with four key appointments of: <ul style="list-style-type: none"> • Senior Lecturer in Ophthalmology with interests in inflammatory eye and epidemiology • Senior Lecturer in Ophthalmology with interests in imaging research & undergraduate teaching. • Associate Professor in SOVS with research interest in epidemiology and vision loss 3. Determining the barriers to accessing eye health care that are faced by people in New Zealand. <ul style="list-style-type: none"> • Māori research fellow in Ophthalmology assessing barriers to interests in eye care and eye health amongst Māori and Pasifika 4. Development of with Zhongshan Eye Centre, the largest eye institute in China

Section 6 –MAJOR ACHIEVEMENTS AND OTHER NOTABLE ACTIVITIES:

<p>Report against the specific goals listed in 5b above</p>	<ol style="list-style-type: none"> 1. Continue with expanding community programmes: <ul style="list-style-type: none"> • Expanded school screening • Collaborative glaucoma clinics with ADHB, SOVS and community optometrists • Development of an MoU with the Fred Hollows Foundation New Zealand • Securing philanthropic funding to allow SOVS to appoint Dr Jacqui Ramke as Associate Professor • Addition of collaborative Uveitis, Keratoconus and Corneal Collagen Cross Linking clinics between Dept of Ophthalmology and ADHB.
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	<p>2. Increase our research collaborations within UoA, nationally and internationally</p> <ul style="list-style-type: none"> • Medical University of Wenzhou, China • Dr Jie Zhang and Prof CNJ McGhee development of research/teaching collaborations with, and invitation to, Zhongshan Eye Centre, the largest eye institute in China • Further collaborations with Johns Hopkins – Dr Stuti Misra and Prof Charles McGhee • Dr Niederer represented New Zealand in the Australia/NZ Expert Panel on Management of JIA-associated Uveitis to develop a consensus statement on management of JIA-associated Uveitis (the most common cause of uveitis in children). • Professor Colin Green Science Advisor – Greenlane Research and Education Fund.
<p>Summary of major developments and achievements. Identify how these activities contribute to the research capability of the department or faculty (beyond what would be achieved through the activities of the individual members). Please provide greater detail for anything noteworthy that may give useful publicity to the University</p>	<p>Community activities are continuing to expand with the school screening programme now testing approx. 4,500 Auckland school children each year, and a number of new initiatives planned for 2020.</p> <p>Professor Charles McGhee, Director of NZ-NEC was the recipient of several prestigious awards:</p> <ol style="list-style-type: none"> 1. FRSNZ - Fellow of the Royal Society Te Apārangi, New Zealand 2. ONZM – Officer of New Zealand Order of Merit for contributions to ophthalmology 3. International Gold Medal Award of Chinese Ophthalmological Society - In recognition of outstanding contributions to world eye care, education & support of Chinese ophthalmology 4. Immediate Past-President, Asia Pacific Academy of Ophthalmology (APAO) representing 83,000 ophthalmologists (40% of world) and 25 national/regional ophthalmology societies 5. Re-elected President: AAPPO – Association of Asia Pacific Professors of Ophthalmology (N= >70 Professors in the region) <p>Dr Rachael Niederer: recipient of School of Medicine Distinguished Clinical Teacher Award 2019</p> <p>SOVS secured financial support from the <i>Buchanan Charitable Foundation</i> to appoint Dr Jaqueline Ramke as an Associate Professor in Public Eye Health. Jacqui is an optometrist in eye health epidemiology (particularly in low-income countries).</p> <p>She is currently funded by a Rutherford Commonwealth fellowship, at the London School of Hygiene & Tropical</p>

Medicine and will join SOVS towards the middle of 2020. Jacqui will lead research initiatives in SOVS relating to eye health inequity (both internationally and within Aotearoa NZ) and will develop new teaching for the BOptom programme on community eye health matters.

SOVS has also established a new *Buchanan Charitable Foundation Honours Project Prize*, which will be awarded in 2020 to the best honours research project in the area of community eye health in recognition of Buchanan *Charitable Foundation* donation.

In Nov 2019 the FDA (Federal Drug Administration) in the US approved the MiSight contact lens as the first treatment approved by them for slowing myopia progression in children. The contact lens was designed and trialled within SOVS (designed by John Phillips, trialled by Nicola Anstice as her PhD). It was commercialised through UniServices.

Professor Paul Donaldson-Elected ICER Vice President Asia Pacific

Dr Julie Lim-Elected to Association for Research in Vision and Ophthalmology Lens Programme Committee

Dr Angus Grey - Conference Convenor for the 27th Australian and New Zealand Society for Mass Spectrometry, Auckland, NZ, Jan 30 – Feb 3 2019.

7 senior academics within NZ-NEC ranked 'A' in the latest PBRF round (4 ophthalmology, 2 SOVS, 1 MVL)

Appointment of Simone Freunelich (NgāPuhui and Tainui) as a research fellow to develop research on aspects of Maori/Pasifika eye health and barriers to attracting Maori/Pasifika into Ophthalmology and Vision Science careers.

10 PhD (2 MVL, 5 Ophthalmology, 3 optometry)

4 MD and 2 BMedSc completions

Several staff within NZ-NEC promoted in 2019

Senior lecturer above the bar:
Ehsan Vaghefi, Julie Lim, Stuti Misra
Senior Research Fellow
Jie Zhang

Student successes:

- Yadi Chen: finalist UoA 3 minute thesis competition
- Alyssa Lie: Received HOPE Selwyn Foundation Scholarship in Ageing Research. Also two travel awards National Foundation for Eye Research Young

	<p>Investigator Travel Award and the Sir John Logan Campbell Medical Trust Award</p> <p>Several high profile international guest lecturers have presented at NZ-NEC seminars in 2018:</p> <ul style="list-style-type: none"> • Professor Michael Kalloniatis, Director Centre for Eye Health, University of New South Wales, Sydney, Australia • Dr Natoli, Lectures in Genetics and Cell Biology, ANU Medical School, Canberra, Australia • Dr Art Epstein, Director of Clinical Research, Phoenix Eye Centre, Arizona, USA <p>Members of NZ-NEc were invited to speak at several international meetings in 2019 including medal and keynote lectures:</p> <p>Professor Colin Green</p> <ul style="list-style-type: none"> • RANZCO NZ • Invited Speaker - Inflammasome Therapeutics Summit. Boston USA • Invited Speaker – Australia and New Zealand Cornea Engineering Group <p>ARVO 2019, Vancouver Canada</p> <ul style="list-style-type: none"> • Professor Colin Green, Dr Julie Lim, Professor Paul Donaldson, A/P Ilva Rupenthal <p>Members of the Molecular Vision Laboratory organised the International Conference on the Lens, held in Kona, Hawaii, USA</p> <p>Professor Charles McGhee</p> <ul style="list-style-type: none"> • Plenary Lecture, 1st International Conference in Clinical Research in Ophthalmology (ICCRO), Guangzhou, China • Plenary Lecture 24th Congress of the Chinese Ophthalmological Society (CCOS), Suzhou • Keynote, The Professor Janet Marsden Memorial Symposium • European Society of Ophthalmology (SOE), Nice, France • Plenary Session: APAO Bangkok, Thailand • Scientific chair for: RANZCO NZ annual conference, ANZ Cornea Society
<p>Comment on any co-operative commercial activities, research with other University or Government</p>	<p>Patented technology was licenced to OcuNexus in October 2019 by Buchannan Oculo-Therapeutics team (BOTU)</p> <p>Contract research project with Dalmoral Pharmaceutical, Australia completed by BOTU</p>

<p>laboratories or research groups</p>	<p>A/P Jennifer Craig</p> <ul style="list-style-type: none"> • Laboratoires Thea and TFOS Key Opinion Leader Continuing Education, Barcelona, Spain • Manuka Health, NZ • E-Swin, France • Aston University, Birmingham, UK • Universities of Montreal and Waterloo, Canada • University of Melbourne, Australia <p>Professor Colin Green</p> <ul style="list-style-type: none"> • Scientific support and trial design for two UniServices Return on Science projects – Pachymatrix and MSD diabetic Rat Strain. • Science Advisor – Greenlane Research and Education Fund. • Chief Scientist, OcuNexus Therapeutics Inc. (gave 35 presentations, attended JP Morgan Healthcare Meetings Jan 2019 San Francisco USA, attended meetings in Amsterdam and Boston, scientific and regulatory support for Nexagon® trials) <p>Professor Paul Donaldson and Dr Julie Lim</p> <ul style="list-style-type: none"> • Testing anti-cataract compound for Naucity Pharmaceuticals Inc.
<p>Comment on any courses given or workshops and seminars held</p>	<p>Internationally A/P Jennifer Craig delivered the following courses/workshops/seminars:</p> <p>BCLA Conference, Manchester</p> <ul style="list-style-type: none"> • Incorporating TFOS DEWS II dry eye diagnosis into clinical practice • Demodex diagnosis <p>Wenshou Medical Universtiy, Wenshou, University of New South Wales, Sydney, Australia SkiCPD Invited Continuing Education seminars, Chamonix, France Dry Eye and Contact Lens Wear Online Module, on behalf of the British Contact Lens Association, London, UK Shire Key Opinion Leader Continuing Education seminar, Montreal, Canada</p> <p>Dr Jie Zhang and Professor Charles McGhee Guangzhou initiative and key lab. Invited visit/lectures to develop research and teaching collaboration with China's largest eye institute – with aim of developing and MOU.</p> <p>Akiesh Gokul, Samantha Simkin, Sue Raynel Ophthalmic Technology Course, Dept of Ophthalmology, FMHS, UoA</p>

Section 7 - Reviews

<p>Date of last review</p>	<p>August 2016</p>
<p>Review Recommendations</p> <p>List the recommendations of the review and give an update of progress on addressing the recommendations.</p>	<p>1. Submission of an HRC programme grant HRC programme grant by all members of NZ-NEC got to final interview stage in both the 2018 and 2019 funding round and the programme has been restructured and resubmitted in the 2020 round.</p> <p>2. Role of Professor Steven Dakin needs to be strengthened and clarified</p> <p>Professor Dakin maintains a key role in NZ-NEC and has collaborated widely on teaching and research developments that perhaps were not emphasised sufficiently in the previous report.</p> <p>A number of current key roles and collaborations include:</p> <ul style="list-style-type: none"> • Extensive discussion re: undergraduate and postgraduate optometry teaching, specifically glaucoma credentialing for UoA and community optometrists. • Leading development of SOVS clinics in collaboration with Dept. of Ophthalmology e.g. 2019's Dry Eye service at Grafton • Development of new HRC programme grant application relating to eye health inequity in 2021 • Leading cross-disciplinary action on addressing under-representation of Maori in optometry. • Leading proposal to shift NZ-NEC focus to emphasize need to tackle eye health inequity • Representative of NZ-NEC/University of Auckland within lobbying organisations such as <i>Eye Health Aotearoa</i> • Involvement in regional planning of ophthalmology services in Metropolitan Auckland in conjunction with the Dept. of Ophthalmology and ADHB. <p>3. Increase participation of School of Optometry and Vision Science (SOVS) and Molecular Vision Laboratory within the Centre, to develop more collaborative research opportunities for the future</p>

	HRC programme grant by all members of NZ-NEC got to final interview stage in 2019 funding round and resubmitted for 2020. Successful HRC project grant Prof Steven Dakin (SOVS) & Prof Helen Danesh-Meyer (Dept of Ophthalmology). Many collaborative grants received by members in NZ-NEC e.g. Dr Gus Grey, Prof Paul Donaldson, Zimei Wu and A/P Ilva Rupenthal (AMRF); Dr Jiwon Hong, Dr Anthony Phillips, Prof John Windsor, Prof Colin Green and A/P Ilva Rupenthal (National Pancreas Foundation)
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Section 8 – FINANCIAL REPORT

State whether the Unit or Centre has its own Activity Centre/s and list the Activity Centre/s being used	NZ-NEC does not have its own cost centre
State sources of funding, for example, from research funds from outside bodies, from the Department or Faculty, or other	N/A
List any significant resource allocation decisions taken by the Oversight Board during this reporting year (if applicable)	N/A
Include a statement of financial performance (contact Faculty Accountant for assistance), or give a clear explanation of the reasons if there has been no financial activity	N/a

Section 9 – RESEARCH OUTPUTS

<p>Include a list of publications and other research outputs</p>	<p>Book Chapters:</p> <p>Sherwin T, Greene C, Green C and Kapadia K. One cell, two phenotypes: capturing pluripotency for corneal repair. In: Corneal Regeneration – Therapy and Surgery. Ed: Jorge Alió. Springer 2019.</p> <p>Peer review publications:</p> <ol style="list-style-type: none"> 1. Muntz A, Subbaraman L, Craig JP, Jones L. Cytomorphological assessment of the lid margin in relation to symptoms, contact lens wear and lid wiper epitheliopathy. <i>Ocul Surf.</i> 2019 doi: 10.1016/j.jtos.2019.12.001. [Epub ahead of print] PMID: 31821876 2. Craig JP, Cruzat A, Cheung IMY, Watters GA, Wang MTM. Randomized masked trial of the clinical efficacy of MGO Manuka Honey microemulsion eye cream for the treatment of blepharitis. <i>Ocul Surf.</i> 2019 doi: 10.1016/j.jtos.2019.11.009. [Epub ahead of print] PMID: 31759183 3. Muntz A, Purslow C, Wolffsohn JS, Craig JP Improved Demodex diagnosis in the clinical setting using a novel in situ technique. <i>Cont Lens Anterior Eye.</i> 2019 doi: 10.1016/j.clae.2019.11.009. [Epub ahead of print] PMID: 31806355 4. Wang MTM, Ormonde SE, Muntz A, Craig JP Diagnostic profile of tear osmolarity and inter-ocular variability for dry eye disease. <i>Clin Exp Ophthalmol.</i> 2019 Nov 20. doi: 10.1111/ceo.13688. [Epub ahead of print] PMID: 31747111 5. Wang MTM, Dean SJ, Muntz A, Craig JP. Evaluating the diagnostic utility of evaporative dry eye disease markers. <i>Clin Exp Ophthalmol.</i> 2019 Oct 31. doi: 10.1111/ceo.13671. [Epub ahead of print] PMID: 31671248 6. Wang MTM, Diprose WK, Craig JP. Epidemiologic research in dry eye disease and the utility of mobile health technology. <i>JAMA Ophthalmol</i> 2019. doi: 10.1001/jamaophthalmol.2019.4833 [Epub ahead of print] PMID: 31774466 7. Wang MTM, Liu L, McPherson RA, Fuller JR, Craig JP. Therapeutic profile of a latent heat eyelid warming device with temperature setting variation. <i>Cont Lens Anterior Eye.</i> 2019 Sep 30. doi: 10.1016/j.clae.2019.09.004. [Epub ahead of print] PMID: 31578176 8. Wang MTM, Thomson WM, Craig JP. Association between symptoms of xerostomia and dry eye in older people. <i>Cont Lens Anterior Eye.</i> 2019 doi: 10.1016/j.clae.2019.09.002. [Epub ahead of print] PMID: 31542280
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	<p>9. Craig JP. Robert J Jacobs: a leader in New Zealand optometric education. <i>Clin Exp Optom</i>. 2019 Aug 28. doi: 10.1111/cxo.12963. [Epub ahead of print] PMID: 31463951</p> <p>10. Zhang AC, de Silva MEH, McIsaac RJ, Roberts, L, Kamel J, Craig JP, Busjia L, Downie, LE. Omega-3 polyunsaturated fatty acid (PUFA) oral supplements for improving peripheral nerve health: a systematic review and meta-analysis. <i>Nutr Rev</i>. 2019 Sep 17. pii: nuz054. doi: 10.1093/nutrit/nuz054. [Epub ahead of print] PMID: 31532492</p> <p>11. Turnbull PRK, Wong J, Feng J, Wang MTM, Craig JP. Effect of virtual reality headset wear on the tear film: A randomised crossover study. <i>Cont Lens Anterior Eye</i>. 2019 Dec;42(6):640-645. PMID: 31474438</p> <p>12. Wang MTM, Feng J, Wong J, Turnbull PR, Craig JP. Randomised trial of the clinical utility of an eyelid massage device for the management of meibomian gland dysfunction. <i>Cont Lens Anterior Eye</i>. 2019 Dec;42(6):620-624. PMID: 31358441</p> <p>13. Agarwal P, Craig JP, Krösser S, Eickhoff K, Swift S, Rupenthal ID. Topical semifluorinated alkane based azithromycin suspension for the management of ocular infections. <i>Eur J Pharm Biopharm</i>. 2019 Sep;142:83-91. PMID: 31195132</p> <p>14. Wang MTM, Craig JP. Natural history of dry eye disease: perspectives from interethnic comparison studies. <i>Ocul Surf</i>. 2019 Jul;17(3):424-433. PMID: 30965124</p> <p>15. Agarwal P, Khun D, Krösser S, Eickhoff K, Wells FS, Willmott GR, Craig JP, Rupenthal ID. Preclinical studies evaluating the effect of semifluorinated alkanes on ocular surface and tear fluid dynamics. <i>Ocul Surf</i>. 2019 Apr;17(2):241-249. PMID: 30831252</p> <p>16. Wang MTM, Craig JP. Registered and published outcomes of randomized trials in ophthalmology. <i>JAMA Ophthalmol</i>. 2019 May 1;137(5):557-558. PMID: 30946428</p> <p>17. Craig JP, Wang MTM. TFOS DEWS II and beyond – utilising evidence base to inform the management of dry eye disease. <i>Optometry in Practice</i>. 2019 Mar;20(1):1-12.</p> <p>18. Ganesalingam K, Ismail S, Sherwin T, Craig JP. Molecular evidence for the role of inflammation in Dry Eye Disease. <i>Clin Exp Optom</i>. 2019 Sep;102(5):446-454. Review. PMID: 30630216</p> <p>19. Cohn GS, Corbett D, Tenen A, Coroneo M, McAlister J, Craig JP, Gray T, Kent D, Murray N, Petsoglou C, Baba SN, Holland EJ. Randomized, controlled, double-masked, multicenter, pilot study evaluating safety and efficacy of intranasal neurostimulation for dry eye disease. <i>Invest</i></p>
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	<p><i>Ophthalmol Vis Sci.</i> 2019 Jan 2; 60(1):147-153. PMID: 30629728</p> <p>20. Craig JP, Lim J, Han A, Tien L, Xue AL, Wang MTM. Ethnic differences between the Asian and Caucasian ocular surface: a co-located adult population cohort study <i>Ocul Surf.</i> 2019 Jan; 17(1):83-88. PMID: 30253249</p> <p>21. Kim JS, Wang MTM, Craig JP. Exploring the Asian ethnic predisposition to dry eye disease in a pediatric population. <i>Ocul Surf.</i> 2019 Jan; 17(1):70-77. PMID: 30219270</p> <p>22. Wang MTM, Xue AL, Craig JP. Screening utility of a rapid non-invasive dry eye assessment algorithm. <i>Cont Lens Anterior Eye.</i> 2019 Oct; 42(5):497-501. PMID: 30473321</p> <p>23. Wang MTM, Xue AL, Craig JP. Comparative Evaluation of 5 Validated Symptom Questionnaires as Screening Instruments for Dry Eye Disease. <i>JAMA Ophthalmol.</i> 2019 Feb 1; 137(2):228-229. PMID: 30419082</p> <p>24. Ganesalingam K, Ismail S, Craig JP, Sherwin T. Use of a purpose-built impression cytology device for gene expression quantification at the ocular surface using Quantitative PCR and Droplet Digital PCR. <i>Cornea.</i> 2019 Jan; 38(1):127-133. PMID: 30346340</p> <p>25. Wang MTM, Dean SJ, Xue AL, Craig JP. Comparative performance of lid wiper epitheliopathy and corneal staining in detecting dry eye disease. <i>Clin Exp Ophthalmol.</i> 2019; 47(4):546-548. PMID: 30345580</p> <p>26. Ziaei M, Gokul A, Patel DV, McGhee CN. Peripheral Cornea Crosslinking Prior to Keratoplasty to Reduce the Risk of Recurrent Ectasia. <i>Medical Hypothesis, Discovery & Innovation in Ophthalmology journal</i> 2020 (In press)</p> <p>27. Han JV, Patel DV, Liu K, Kim BZ, Sherwin T, McGhee CNJ. Auckland Cataract Study IV: Practical Application of NZCRS Cataract Risk Stratification to Reduce Phacoemulsification Complications. <i>Clinical and Experimental Ophthalmology</i> 2019 (Epub ahead of print)</p> <p>28. Ziaei M, Gokul A, Vellara H, Patel DV, McGhee CN. Prospective Two Year Study of Accelerated Pulsed Transepithelial Corneal Cross-Linking outcomes for Keratoconus. <i>Eye</i> (In press)</p> <p>29. Ziaei M, Vellara HR, Gokul A, Ali NQ, McGhee CN, Patel DV. Comparison of corneal biomechanical properties following penetrating keratoplasty and deep anterior lamellar keratoplasty for keratoconus. <i>Clinical and Experimental Ophthalmology</i> 2019 [Epub ahead of print]</p> <p>30. Han JV, Patel DV, Squirrell D, McGhee CNJ. Topical NSAIDs are not the mainstay of prophylaxis and treatment for pseudophakic cystoid macular oedema: Response. <i>Clinical</i></p>
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	<p><i>and Experimental Ophthalmology</i> 2019 [Epub ahead of print]</p> <p>31. McGhee CN, Zhang J, Patel DV. A perspective of contemporary cataract surgery: the most common surgical procedure in the world. <i>Journal of the Royal Society of New Zealand</i> 2019 (In press)</p> <p>32. Zhang J, Patel DV, McGhee CNJ. The Rapid Transformation of Transplantation for Corneal Endothelial Diseases: An Evolution from Penetrating to Lamellar to Cellular Transplants. <i>Asia-Pacific Journal of Ophthalmology</i> 2019;8(6):441-447</p> <p>33. Lu LM, Boyle AB, Niederer RL, Brookes NH, McGhee CN, Patel DV. Repeat corneal transplantation in Auckland, New Zealand: indications, visual outcomes and risk factors for repeat keratoplasty failure. <i>Clinical and Experimental Ophthalmology</i> 2019;47(8):987-994.</p> <p>34. Ziaei M, Gokul A, Vellara HV, Patel DV, McGhee CN. Prospective Two Year Study of Clinical Outcomes Following Epithelium-off Pulsed versus Continuous Accelerated Corneal Crosslinking for Keratoconus. <i>Clinical and Experimental Ophthalmology</i> 2019; 47(8):980-986</p> <p>35. Han JV, Patel DV, Squirrell D, McGhee CN. Cystoid macular oedema following cataract surgery: A review. <i>Clinical and Experimental Ophthalmology</i> 2019;47(3):346-356</p> <p>36. Ng H, Mathan J, Patel DV. Acute Corneal Hydrops. <i>JAMA Ophthalmology</i> 2019 (In press)</p> <p>37. Han JV, Patel DV, Wallace HB, Kim BZ, Sherwin T, McGhee CNJ. Auckland Cataract Study III: Refining Preoperative Assessment With Cataract Risk Stratification to Reduce Intraoperative Complications. <i>Am J Ophthalmol.</i> 2019;200:253-254.</p> <p>38. Zhang J, McGhee CN, Patel DV. The Molecular Basis of Fuchs' Endothelial Corneal Dystrophy. <i>Molecular Diagnosis & Therapy</i> 2019;23(1):97-112</p> <p>39. Patel DV, Zhang J, McGhee CN. <i>In vivo</i> confocal microscopy of the inflamed anterior segment: a review of clinical and research applications. <i>Clinical and Experimental Ophthalmology</i> 2019; 47(3):334-345</p> <p>40. Zhu M, Tay ML, Callon K, Tuari D, Zhao L, Dray M, Zhang J, Munro J, Young S, Coleman B, Patel DV, Cornish J, Musson D. Overlay Repair with a Novel Collagen Scaffold Improves the Quality of Healing in a Rat Rotator Cuff Repair Model. <i>Journal of Shoulder and Elbow Surgery</i> 2019 (In press)</p> <p>41. Han JV, Patel DV, Wallace HB, Kim BZ, Sherwin T, McGhee CN. Auckland Cataract Study III: refining preoperative assessment with cataract risk stratification to reduce</p>
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Please forward your report to your Head of Department or Faculty Office for endorsement (Section 1B above). Note: Annual Reports to be submitted to Research Committee must reach the Research Office by 28 February.

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Associate Professor Robert Jacobs
Associate Professor Sam Schwarzkopf
Dr Geraint Phillips (Senior Lecturer/Clinic Director)
Dr Andrew Collins (Academic Director)

Senior Lecturer

Dr John Phillips
Dr Misha Vorobyev
Dr Ehsan Vaghefi
Dr Clairton de Souza

Lecturer

Dr Monica Acosta
Dr Jason Turuwhenua
Dr Jo Black
Dr Phil Turnbull
(Clinic) 0.2
Dr Tina Gao

Professional Teaching Fellows

Wanda Lam
Bhavini Solanki
Melinda Calderwood
Lisa Silva
Kathryn Sands
Kerry Atkinson
Michelle O'Hanlon
Jason Dhana
Marcy Tong
Jaymie Rogers
Robert Ng
John McLennan
Zaria Burden
Bhavna Patel
Ashley Gray
Kristine Hammond

Research Fellows and Postdoctoral Fellows

Dr Keith Pine
Dr Lisa Hamm
Dr Catherine Morgan
Dr Lucy Goodman

PhD Candidates

Tanya Poppe graduated 2019
Safal Khanal graduated 2019
Renita Martis graduated 2019
Soheil Mohammadpour
Xing Zheng Pan (Wilson)
Rebecca Findlay
Jayshree South

Alice Cade
Alyssa Lie
Gaganashree Shivashankar
Tasi Watson
Jasmine Zoest

Technicians (transferred to Technical Services late 2019)

Adina Giurgiu – Lab Manager
Emily Benefer – Optical Assistant

Administration

Johanna Beattie – Group Services Manager
Naomi Twigden – Group Services Team Leader
Elviera Cowan – Group Services Administrator
Virginia Parslow – Practicum Placement Co-ordinator
Rowena Knight-Brown – Group Services Co-ordinator
Debbie Waayer – Research Programme Manager

Visiting Lecturers/ Honorary Academics

Associate Professor Benjamin Thompson
Lecturer Isabelle Mareschal
Lecturer Jacqueline Ramke
Grant Watters
Keith Pine
Martin Loertscher
Nicola Anstice
Samuel Chiang

Molecular Vision Laboratory

Director:

Prof. Paul Donaldson

Senior lecturer

Dr Julie Lim
Dr Ehsan Vaghefi

Senior research fellow

Dr Angus Grey

Post-doctoral research fellows

Dr Rosica Petrova
Dr Haruna Suzuki-Kerr
Dr George Guo
Dr Renita Martis

PhD students

Ms Yadi Chen