

Curriculum Vitae

Name: David Wong

Date of Birth: 29 June 1952

Medical Qualifications:

MB ChB (University of Liverpool) 1978, MRCP (UK) 1981, FRCS (England) 1983, FRCOphth 1989, FRCP 2000.

Present Appointment

2007 Albert Young Endowed Chair Professor in Ophthalmology, Director of the Eye Institute, the University of Hong Kong

2006 Honorary Professor, the Hong Kong Polytechnic University

2005 Honorary Professor, Department of Medicine, the University of Liverpool, UK

1987 Consultant Ophthalmologist, Royal Liverpool Hospital, Liverpool, UK

Publication Records

Research in the field of retina focusing on proliferative vitreoretinopathy and macular degeneration, their pathogenesis and conducting clinical trials of surgery with adjuvant therapy and developing new surgical techniques and tamponade agents. Over 180 journal articles. 18 chapters in 4 books.

Other duties

Vice President to the Royal College of Ophthalmologists and Chairman of Scientific Committee, 2003-7

President of the British and Eire Vitreoretinal Society 2009-present

Editor-in-chief for Graefe's Archive of Clinical and Experimental Ophthalmology

2001-present

Section Editor, British Journal of Ophthalmology 2006-present

Editorial Board member of the Chinese Journal of Fundus and Ocular Disease since

2003-present

International editor for the Chinese Journal of Ophthalmology

Board member of EURETINA

Editorial board member of the journal Ophthalmologica

Eponymous lectures and Prizes

The Brian Harcourt Lecture, 2001. The Mooney Lecture: Irish College of Ophthalmology, 2004. The Von Graefe's lecture entitled the "Innovator's Lecture" at the German Ophthalmological Society (DOC) 2003. Keynote Lecturer, Joint meeting of the European Ophthalmological Society (SOE) and the German Ophthalmological Society (DOG), Berlin 2005. Keshmahinder Singh Oration, Kuala Lumpur 2006. Brian Harcourt lecture, Leeds, United Kingdom (delivered in January 2010) Norman Galloway lecture, Nottingham, United Kingdom (delivered at the 14th Nottingham Eye Symposium). Dato Mohd Nor Marahakim Lecture delivered at the 6th Joint UKM-USM-UM Symposium 2010.

Herman Wacker Prize: 2009 awarded by the Club Jules Gonin

Publications

1. Li S.Y., Yang D., Fu Z.J., Woo T., Wong S.H.D. and Lo A.C.
Lutein enhances survival and reduces neuronal damage in a mouse model of ischemic stroke. *Neurobiol Dis.* 2011 Oct 17. [Epub ahead of print] PubMed PMID: 22024715.
2. Wong S.H.D. and Aylward B.
British and Eire Association of Vitreoretinal Surgeons. *Ophthalmologica.* 2011;226 Suppl 1:1-2. Epub 2011 Jul 22. PubMed PMID: 21778773.
3. Wong I.Y., Poon M.W., Pang R.T., Lian Q. and Wong S.H.D.
Promises of stem cell therapy for retinal degenerative diseases. *Graefes Arch Clin Exp Ophthalmol.* 2011 Oct;249(10):1439-48. Epub 2011 Aug 25. PubMed PMID: 21866334; PubMed Central PMCID: PMC3178027.
4. Wong S.H.D., Lai W. and Yusof W.
The use of continuous silicone oil infusion as a peroperative tool to facilitate break localisation, vitreous base dissection and drainage of subretinal fluid. *Ophthalmologica.* 2011;226 Suppl 1:53-7. Epub 2011 Jul 22. PubMed PMID: 21778781.
5. Lo A.C., Woo T.T., Wong R.L. and Wong S.H.D.
Apoptosis and other cell death mechanisms after retinal detachment: implications for photoreceptor rescue. *Ophthalmologica.* 2011;226 Suppl 1:10-7. Epub 2011 Jul 22. Review. PubMed PMID: 21778775.
6. Cazabon S., Hillier R.J. and Wong S.H.D. Heavy silicone oil: a "novel" intraocular tamponade agent. *Optom Vis Sci.* 2011 Jun;88(6):772-5. PubMed PMID: 21499168.
7. Sandinha M.T., Newman W., Wong D. and Stappler T.
Outcomes of delayed vitrectomy in open-globe injuries in young patients. *Retina.* 2011 Sep;31(8):1541-4. PubMed PMID: 21358459.
8. Wickham L., Bunce C., Wong S.H.D. and Charteris D.G.
Retinal detachment repair by vitrectomy: simplified formulae to estimate the risk of failure. *Br J Ophthalmol.* 2011 Sep;95(9):1239-44. Epub 2011 Feb 16. PubMed PMID: 21325394.
9. Wickham L., Ho-Yen GO, Bunce C., Wong S.H.D. and Charteris D.G. Surgical failure following primary retinal detachment surgery by vitrectomy: risk factors and functional outcomes. *Br J Ophthalmol.* 2011 Sep;95(9):1234-8. Epub 2010 Dec 13. PubMed PMID: 21156702.
10. Li S.Y., Yang D., Yeung C.M., Yu W.Y., Chang R.C.C., So K.F., Wong D.S.H. and Lo A.C.Y.
Lycium barbarum polysaccharides reduce neuronal damage, blood-retinal barrier disruption and oxidative stress in retinal ischemia/reperfusion injury, *PLoS One,* 2011, 6(1), e16380

11. Wong D.S.H. and Jousseaume A.M.
The safety of using anti-VEGF: Is there strength in numbers? Curtis LH, Hammill BG, Schulman KA, Cousins SW (2010) Risks of mortality, myocardial infarction, bleeding, and stroke associated with therapies for age-related macular degeneration. *Arch Ophthalmol* 128(10):1273-1279, *Graefes Arch Clin Exp Ophthalmol*, 2011, 249(2), 161-162
12. Wong D.S.H. and Jousseaume A.
Welcome to the iPad generation, *Graefes Arch Clin Ophthalmol*, 2011, 249(1), 161-162
13. Williams R.L., Day M.J., Garvey M.J., Morphis G., Irigoyen C., Wong D.S.H. and Stappler T.
Injectability of silicone oil-based tamponade agents, *Br J Ophthalmol*, 2011, 95(2), 273-276
14. Hillier R.J., Stappler T., Williams R.L., Turner G.S. and Wong D.S.H.
The impact of axial length on retinal tamponade for gas, silicone oil, and heavy silicone oil, using an in vitro model, *Graefes Arch Clin Exp Ophthalmol*, 2011, 249(5), 671-675
15. Wong D.S.H.
Is traction the cause or the effect?, *Graefes Arch Clin Exp Ophthalmol*, 2011, 249(6), 809-810
16. Cazabon S., Hillier R.J. and Wong D.S.H.
Heavy silicone oil: a "novel" intraocular tamponade agent, *Optom Vis Sci*, 2011, 88(6), 772-775
17. Fong A.H.C., Li K.K.W. and Wong D.S.H.
Intravitreal ranibizumab, photodynamic therapy, vitreous surgery for the treatment of juxtapapillary retinal capillary hemangioma, *Graefes Arch Clin Exp Ophthalmol*, 2011, 249(4), 625-627
18. Marticorena J., Romano M.R., Heimann H., Stappler T., Gibran K., Groenewald C., Pearce I. and Wong D.S.H.
Intravitreal bevacizumab for retinal vein occlusion and early growth of epiretinal membrane: a possible secondary effect?, *Br J Ophthalmol*, 2011, 95(3), 391-395
19. Fong A.H.C., Li K.K.W. and Wong D.S.H.
Choroidal evaluation using enhanced depth imaging spectral-domain optical coherence tomography in Vogt-Koyanagi-Harada disease, *Retina*, 2011, 31(3), 502-509
20. Lai W.W.K., Leung G.Y.O., Chan C.W.S., Yeung I.Y.L. and Wong D.S.H.
Simultaneous spectral domain OCT and fundus autofluorescence imaging of the macula and microperimetric correspondence after successful repair of rhegmatogenous retinal detachment, *Br J Ophthalmol*, 2010, 94(3), 311-8
21. Li K.K.W., Tang E.W.H., Li P.S.H. and Wong D.S.H.
Double peel using triamcinolone acetonide and trypan blue in the management of myopic macular hole with retinal detachment: a case-control study, *Clin Experiment Ophthalmol*, 2010, 38(7), 664-8

22. Mehta J., Farnell D.J., Stappler T., Liazos E. and Wong D.S.H.
Perception of tilt following counter-rotation surgery, *Clin Experiment Ophthalmol*, 2010, 38(3):, 284-91
23. Romano M.R., Baddon C., Heimann H., Wong D.S.H. and Hiscott P.
Histopathological findings in an epimacular membrane after intraoperative use of perfluorocarbon liquid., *Eye (Lond)*. 2010, 2010, 24(4), 740-2
24. Williams R.L., Day M., Garvey M.J., English R. and Wong D.S.H.
Increasing the extensional viscosity of silicone oil reduces the tendency for emulsification., *Retina*. 2010, 2010, 30(2), 300-4
25. Williams C.J., Lui W.C., Li K.K.W., Wong D.S.H. and Lo A.C.Y.
Correspondence. author reply, *Retina*, 2010, 30(3), 534-535
26. Stappler T., Williams R. and Wong D.S.H.
F4H5: a novel substance for the removal of silicone oil from intraocular lenses, *Br J Ophthalmol*, 2010, 94(3), 364-367
27. Pattwell D.M., Stappler T., Sheridan C., Heimann H., Gibran S.K. and Wong D.S.H.
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28. Yeung C.M., Lo A.C.Y., Cheung A.K., Chung S.S., Wong D.S.H. and Chung S.K.
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32. Shum J.W., Chan K.S., Wong D.S.H. and Li K.K.W.
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33. Li S.Y., Fu Z., Ma H., Jang W.C., So K.F., Wong D.S.H. and Lo A.C.Y.
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Removal of Densiron-68 with a 23-gauge transconjunctival vitrectomy system, *Eye*, 2009, 23(3), 715-717
35. Wong D.S.H.
To peel or not to peel the internal limiting membrane: a question finally answered?, *Br J Ophthalmol*, 2009, 93(6), 987-988
36. Veckeneer M. and Wong D.S.H.
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37. Jousseaume A.M., Wong D.S.H., Walter P., Kirchhof B., Dreyhaupt J., Bauer C., Munzinger J., Unnebrink K., Freiburger A., Seibert-Grafe M. and Victor N.
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38. Lee M., Lo A.C.Y., Cheung P.T., Wong D.S.H. and Chan B.P.
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Can an intraoperative bevacizumab injection prevent recurrent postvitrectomy diabetic vitreous hemorrhage? *Eur J Ophthalmol.*, 2009, 19(4), 618-621
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Primary vitrectomy with Densiron-68 for rhegmatogenous retinal detachment, *Graefes Arch Clin Exp Ophthalmol*, 2009, 246(11), 1541-6
41. Lim E., Cheung J.J., Ho M.H., Li K.K.W. and Wong D.S.H.
Post-varicella idiopathic intracranial hypertension in a child, *J Paediatr Child Health*, 2009, 45(4), 235-236
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43. Kenawy N., Wong D.S.H., Stappler T., Romano M.R., Das R.A. and Hebbab G.
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Densiron-68 heavy silicone oil in cases of PVR. Anatomic and functional outcomes, *Ophthalmologie*, 2009, 106(4), 320-326

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47. Romano M.R., Gibran S.K., Marticorena J., Wong D.S.H. and Heimann H. Reply to Smith et al., *Eye*, 2009
48. Williams R. and Wong D.S.H. Increasing the extensional viscosity of silicone oil reduces the tendency for emulsification., *Retina*, 2009, 209-140R2
49. Chan C.W.S., Wong D.S.H., Lam C.L.K., McGhee S. and Lai W.W.K. Development of a Chinese version of the National Eye Institute Visual Function Questionnaire (CHI-VFQ-25) as a tool to study patients with eye diseases in Hong Kong, *Br J Ophthalmol*, 2009, 93(11), 1431-1436
50. Fong A.H.C., Li K.K.W., Jon H.C.K., Lai W.W.K. and Wong D.S.H. Choroidal neovascularisation secondary to Klebsiella pneumonia endogenous endophthalmitis, *Clin Experiment Ophthalmol*, 2009, 37(2), 239-240
51. Li K.K.W. and Wong D.S.H. Avoiding retinal slippage during macular translocation surgery with 360 retinotomy, *Graefes Arch Clin Exp Ophthalmol*, 2008, 246(5), 649-651
52. Lai W.W.K., Lai J.S. and Wong D.S.H. Double Macular Hole in Vitreoretinal Traction Syndrome: Author's Reply, *Retina*, 2008, 28(2), 366-367
53. Lai W.W.K., Wong D.S.H., Li K.K.W. and Leow P.W. Emulsification and inverted hypopyon formation of Oxane HD in the anterior chamber, *Graefes Arch Clin Exp Ophthalmol*, 2008, 246(11), 1633-1635
54. Lam R.F., Cheung B.T.O., Yuen C.Y.F., Wong D.S.H., Lam D.S. and Lai W.W.K. Retinal re-detachment after silicone oil removal in proliferative vitreoretinopathy - a prognostic factor analysis, *Am J Ophthalmol*, 2008, 145(3), 527-533
55. Lam R.F., Cheung B.T., Yuen C.Y., Wong D.S.H., Lam D.S. and Lai W.W.K. Reply to Correspondence: Retinal re-detachment after silicone oil removal in proliferative vitreoretinopathy - a prognostic factor analysis, *Am J Ophthalmol*, 2008, 146(1), 145
56. Bartz-Schmidt U., Szurman P., Wong D.S.H. and Kirchhof B. New developments in retinal detachment surgery, *Ophthalmologe*, 2008, 105(1), 27-36
57. Heimann H., Stappler T. and Wong D.S.H. SDF1-alpha is associated with VEGFR-2 in human choroidal neovascularisation, *Eye*, 2008, 75(3), 320-327
58. Wong D.S.H., Liazos S., Mehta J. and Farnell D.J. Macular translocation surgery: computer simulation of visual perception, *Graefes Arch Clin Exp Ophthalmol*, 2008, 246(6), 831-836

59. Gibran S. .K., Romano M. .R. and Wong D.S.H.
Surgical Management Of Massive Sub-Macular Hemorrhage Associated With Age-Related Macular Degeneration, *Retinal Cases & Brief Reports*, 2008
60. Fong A.H., Li K.K., Jon H.C., Lai W.W.K. and Wong D.S.H.
Choroidal neovascularization secondary to *Klebsiella pneumoniae* endogenous abscess and endophthalmitis, *Clin Experiment Ophthalmol*, 2008, 37(2), 239-240
61. Li K.K.W., Tang E.W., Lai J.S.M. and Wong D.S.H.
Pseudomonas aeruginosa choroidal abscess in a patient with bronchiectasis, *Int Ophthalmol*, 2008, 28(4), 287-290
62. Heimann H., Stappler T. and Wong D.S.H.
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63. Stappler T., Williams R., Gibran S.K., Liazos E. and Wong D.S.H.
A guide to the removal of heavy silicone oil, *Br J Ophthalmol*, 2008, 92(6), 844-847
64. Hemmerdinger C. and Wong D.S.H.
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65. Gibran S.K., Romano M.R. and Wong D.S.H.
Perfluorocarbon liquid assisted large retinal epithelium patching in sub-macular hemorrhage secondary to age related macular degeneration, *Graefes Arch Clin Exp Ophthalmol*, 2008, 247(2), 187-191
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70. Stappler T., Heimann H., Wong D.S.H., Gibran S.K., Groenewald C. and Pearce I.A.
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74. Li K.K.W., Tang E.W.H., Lai J.S.M. and Wong D.S.H.
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75. Gibran S.K., Prime W., Cazabon J., Stappler T., Heimann H., Pearce I., Groenewald C., Wong D.S.H. and Hiscott P.
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76. Wickham L., Bunce C., Wong D.S.H., McGurn D. and Charteris D.G.
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77. Valdeperas X. and Wong D.S.H.
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Changes in the retinal inner limiting membrane associated with Valsalva retinopathy, *Br J Ophthalmol*, 2007, 91(5), 701-702

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87. Wong D.S.H. and Durnian J.
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Books

Mostafa S (Ed), Wong D, Hunter J, Ahearn R, Kelly J. Anaesthesia for Ophthalmic Surgery. Oxford University Press, 1992.

Chignell A H and Wong D. Management of Vitreoretinal Disease: A Surgical Approach. Springer. London, 1998.

Kirchhoff B, Wong D (Editors) Vitreoretinal Surgery: Book in Series 'Essentials of Ophthalmology' by Verlag Springer. ISSN :1612/3212; 2004.

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Grants

- The Guide Dogs for the Blind. Briggs M, Grierson I. (1994) "Complements and Scatter Factors in Proliferative Vitreoretinopathy PVR. (£25,000).
- The Guide Dogs for the Blind. Grierson I, Williams R, Hiscott P, Wong D (1995) "Modulation of cellular proliferation in the vitreous and retina using a controlled Drug Delivery System." (£35,000).
- The Guide Dogs for the Blind. Wong D, Aylward GW, Charteris D. (1997) "Adjuvant therapy for treatment of Proliferative Vitreoretinopathy". (£125,000).
- National Health Service Executive North West R&D Directorate. Hiscott P, Wong D (1998). "Periretinal extracellular matrix proteins and retinal detachment outcome". (£37,922).
- Deutsche Forschungsgemeinschaft (DFG), German Medical Research Council. SPR study group. Germany "Primary vitrectomy versus scleral buckling trial." A prospective, randomised controlled trial. (€ 12,000).
- The Dunhill Medical Trust. Grierson I, Hiscott P, Wong D, Batterbury M, Hogg P (1998). "Determination of the conditions necessary to establish retinal pigment epithelium in optimal conditions for transplantation in treatment of age related macular degeneration". Fellowship. (£104,172).
- Royal Liverpool and Broadgreen University Hospital Trust Research and Development Grant, (1999). Foveal relocation for the treatment of Age-related macular degeneration. Wong D, Grierson I, Iball W. (£25,000).
- Royal Liverpool and Broadgreen University Hospital Research and Development Grant, 2000. Gratton W, Wong D. "Model of Care for Retinal Detachment". (£12,500).
- Ridley Foundation Grant. "Macular Relocation Surgery", (2001-3). Wong D (£100,000).
- Royal Liverpool Hospital Research and Development Grant, (2002). Optical Computerised Tomography Imaging and Autofluorescence in age related macular degeneration. (£25,000)

- Deutsche forschungsgemeinschaft, 2003. MARAN trial (Macular Relocation for Age-related Neovascular Disease): a randomized controlled trial. (€ 40,000).
- Royal Liverpool Broadgreen University Hospital Trust R&D Support Fund. Hiscott P, Wong D, Grierson I (1999). "Wound healing after age related macular degeneration surgery." Project running costs (£19,200).
- Wolfson Foundation. Harding SP, Batterbury M, Damato BE, Grierson I, Hiscott P, Kaye S, McGalliard J, Wong D (2000). Clinical Research Centre, St Paul's Eye Unit. Buildings and infrastructure grant (£400,000).
- Guide Dogs for the Blind Association. Hiscott P, Paraoan L, Wong D (2002-2005). Inhibition of provisional matrix synthesis in proliferative vitreoretinopathy (PVR) prevention. (£92,684).
- British Council for the Prevention of Blindness Dhawahir F E, Sheridan C, Kent D, Roberts S, Wong D. (2004) "Smart" targeting of anti-scarring agents in an in vitro model of retinal wound healing. (£40,000).
- Scottish Office. Multi-center randomized trial on internal limiting membrane peel for macular hole surgery (Total grant £150,000). Funded on a per-case basis
- Heavy Silicone Oil Study. Funded by the Deutsche forschungsgemeinschaft (DFG), German Medical Research Council. Grant on a per patient basis (approximately € 200 per recruitment). Ethics and Hospital approval granted March 2005.
- Joint Industry grant with Fluoron GmbH for investigation into high molecular weight silicone oil (€ 60,000)
- Microplasmin study. Multi-centre randomized controlled trial on microplasmin. Funded on a per-case basis.
- Albert Bing Ching Young Foundation to endow the Chair in Ophthalmology. (2007) (HK\$10 million)
- University Development Fund (UDF) 2006-2007 (1st Round) from The University of Hong Kong to support the purchase of four major pieces of equipment for Ophthalmology teaching and research. (HK\$2.954 million)
- University Development Fund (UDF) 2006-2007 (1st Round) from The University of Hong Kong to support the Development of Ophthalmology. (HK\$5 million)
- S.K. Yee Medical Foundation Grant (2007) "To introduce bevacizumab for the treatment of macular degeneration and diabetic retinopathy at Queen Mary Hospital". Prof David Wong is the project leader. (K\$340,000)
- University Development Fund (UDF) 2007-2008 (1st Round) from The University of Hong Kong to support the start-up costs for setting up the research centre and virtual clinic in Cyberport. (HK\$3.85 million)
- The University of Hong Kong URC Seed funding (2007-09-01 to 2009-08-31) for the project "Inhibition of provisional matrix synthesis in proliferative vitreoretinopathy (PVR) prevention". (HK\$120,000)
- The University of Hong Kong URC Seed funding (2007-09-01 to 2009-08-31) for the project "To investigate the safety and efficacy of tamponade agents in a

rabbit model using eletrodiagnositc, histological and magnectic resonance imaging studies". (HK\$120,000)

- The University of Hong Kong URC Seed funding (2007-12-01 to 2009-11-30) for the project "The use of a conjugate of mushroom (Agaricus bisporus) lectin and 5-fluorouracil as an inhibitory agent against proliferative vitreoretinopathy". (HK\$120,000)
- The University of Hong Kong URC Seed funding (2007-05-01 to 2008-10-31) for the project "The role of hypoxia-inducible factor in choroidal neovascularization (CNV) and age-related macular degeneration (AMD) using an in vitro hypoxia/ischemia model". (HK\$100,000)
- Trustech £25,000 for patent and development of heavy tamponade agent.
- £148,831 grant from Wellcome Trust UK. "Heavy Tamponades for Intravitreal Surgery" (2008-2011)
- Health and Health Service Research Fund (HK\$ 536,883) "Prioritising patients for cataract surgery: quality of life, visual acuity, visual functioning and cost effectiveness" (2012-2014)
- Medical Research Council (July 2009-present) The Effectiveness of Early Clear Lens Implantation for the treatment of Primary Angle Closure Glaucoma: A Randomised Controlled Trial. (£1.75 million)
- Azalea Endowment Fund (Jan 2009-2012) Diabetic Retinopathy Screening Project. (HK\$4.5 million)
- S.K. Yee. Medical Foundation (2008-2011) A new rehabilitative treatment for patients with visual loss from macular degeneration - the telescopic intraocular lens implant (IOL-VIP system). (HK\$919,525)