

Curriculum vitae

Christopher John Hammond

Frost Chair of Clinical Ophthalmology
Department of Ophthalmology
King's College London, Guys and St Thomas' NHS Foundation Trust

NIHR Senior Research Fellow
Department of Twin Research and Genetic Epidemiology
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CURRICULUM VITAE

Personal Details

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Date of birth 17 August 1963

Place of birth Harare, Zimbabwe

Certificate of Completion of Specialist Training 13 July 2000

General Medical Council Full registration, Number 3274394

Medical Defence Union Membership No 230925C

Academic and Education

Education

Secondary	Peterhouse, Marondera, Zimbabwe
University	Jesus College, Cambridge (medical sciences tripos) Jesus College, Oxford (clinical medicine)

Qualifications

BA Hons	Cambridge University	1985
MA	Cambridge University	1988
BM BCh	Oxford University	1988
MRCP (UK)	Royal College of Physicians	1991
FRCOphth	Royal College of Ophthalmologists	1993
MD	University of London	2000

Prizes and Awards

1982	Anglo-American Corporation Open Scholarship
1987	LEPRA, 3M-Riker, M.I.A. elective prizes
1992	Southern Ophthalmic Society Prize
1992	Joanna Sheldon Prize
1999	Wallace Foulds Trophy
2012	Raine Visiting Professor Medal, University of Western Australia
2012	St Thomas' Hospital Department of Ophthalmology awarded London Deanery Elizabeth Paice Award for Educational Excellence (Best secondary care dept/unit)
2013	St Thomas' 'Trends in Ophthalmology' Meeting 2013 Ridley Lecture Medal
2013	Chris Chew Memorial Lecture Medallion

Current Appointments

- 2011- **Frost Chair of Ophthalmology**, King's College London
St Thomas' Hospital, London
- 2008-2013 **NIHR Senior Research Fellow**, King's College London
Department of Twin Research & Genetic Epidemiology
St Thomas' Hospital, London

Previous Appointments

- Sept 2012 **Visiting Professor**, Lions Eye Institute
University of Western Australia
- 2007-2013 **Regional Adviser**, Royal College of Ophthalmologists
South East Thames region
- 2000-2011 **Consultant Ophthalmologist**, West Kent Eye Centre
Princess Royal University Hospital, Orpington
- 2006-2011 **Visiting Professor**, Department of Optometry and Vision Science
City University School of Optometry, London
- 2002-2007 **Training Programme Director**
London and KSS Deaneries Ophthalmology rotations
- 2002-2004 **External Examiner**
City University Optometry and Vision Science BSc degree
- 1999-2000 **Fellow, Strabismus and Paediatric Ophthalmology Service**
Moorfields Eye Hospital, London
- 1997-1999 **Wellcome Clinical Research Fellow**
Institute of Ophthalmology & St Thomas' Hospital, London
- 1995-1997 **Senior Registrar in Ophthalmology**
St Thomas' Hospital, London
- 1994-1995 **Registrar in Ophthalmology**
Western Eye Hospital, London
- 1993-1994 **SHO in Ophthalmology**
Addenbrooke's Hospital NHS Trust, Cambridge
- 1991-1993 **SHO in Ophthalmology**
Sussex Eye Hospital, Brighton
- 1989-1991 **SHO in General Medicine**
North Staffs Medical Rotation, Stoke-on-Trent
- 1989-1989 **House Surgeon**, Stoke on Trent
- 1988-1989 **House Physician**, John Radcliffe Hospital, Oxford

Research Funding

Investigation of the utility of cascade screening in high-risk family members of Afro-Caribbean glaucoma cases

International Glaucoma Association £49,882
2013-2015. PI Hammond

Cognitive, behavioural, environmental and genetic associations of myopia in the Twins Early Development Study

Medical Research Council (Dr Katie Williams PhD) £206,053
2013-2016. PI Hammond
TFC Frost Charitable Trust £20,000

Identification of genetic susceptibility factors for glaucoma through analysis of large scale genotype and sequencing data

Fight for Sight Early Career Investigator Award (Dr Pirro Hysi) £200,000
2013-2015. Investigators Hammond, Hysi

TwinsUK (2012-2015) – an epidemiological and genomic resource

Wellcome Trust £1,476,589
2013-2014. Investigators Spector, Hammond, Hart

Developing electroretinogram (ERG) protocols to aid early diagnosis of age-related macular degeneration and to understand abnormal retinal function in genetic retinal diseases

Fight for Sight New Lecturers Small Grant Award (Dr Omar Mahroo) £19,000
2012-2013. Investigators Mahroo, Hammond

Rare variants in glaucoma: a whole-genome sequencing study

Fight for Sight PhD Studentship (Dr Abhishek Nag) £99,350
2011-2014. PI Hammond
Worshipful Company of Spectacle Makers £10,000

TwinsUK resource: data and sample harmonisation towards open access and cohort maintenance

Wellcome Trust £658,151
2011-2013. Investigators Spector, Hart, Ahmadi, Hammond, Cherkas

The genetics of common age-related eye disease: NIHR Senior Research Fellowship (SRF/01/2008/10)

NIHR £630,237
2008-2013. PI Hammond

International Collaborative Twin Study of Refractive Error and Glaucoma

Endophenotypes (R01EY018246-01-1).

National Eye Institute, NIH, USA \$1,862,999 (\$462,000 to my group)

2008-2010. Investigators: Young Hammond Mackey Spector

A genomewide association study of refractive error in the 1958 British Birth Cohort

Wellcome Trust. £591,024

2008-2009. Investigators: Rahi, Hammond, Webster, Bhattacharya, Sham

Genetics of Ageing: genetic and environmental determinants of ageing in women

Wellcome Trust £1,856,531

2007-2012. Investigators: Spector, Valdes, Hammond, Jackson

TwinsUK Genetic Epidemiology Resource

Wellcome Trust £1,063,464

2006-2011. Investigators Spector, Hammond, Sham, Solomon, Carter

My Europia: Marie Curie Research Training Network in Myopia Research (MRTN-CT-2006-034021)

European Union. 3,173,960 Euros (362,984 awarded to my group)

2006-2010. Investigators: Schaeffel, Artal, Rodenstock, Guggenheim, Malecaze, Hammond, Feldkaemper, Reisenbach.

The genetics of myopia and refractive error: analysis of highly significant linkage loci.

Wellcome Trust. £433,000

2006-2009. Investigators: Hammond, Andrew, Spector, Maniatis

Dissecting the genetics of glaucoma and its risk factors using a twin study.

Guide Dogs for the Blind. £118,000

2006-2008. Investigators: Hammond, Mackey, Andrew Spector

The molecular epidemiology of age-related cataract.

Guide Dogs for the Blind: £174,000

2006-2008. Investigators: Hammond, Francis, Andrew, Spector

An investigation into the genetics of myopia using the 1958 cohort.

MRC: £270,000

2005-2007. Investigators: Rahi, Battacharya, Webster, Hammond, Peckham (ICH)

Twin Eye Study of Glaucoma.

NHMRC (Australia): A\$678,000

2005-2007. Investigators: Mackey, Craig, Hammond

Twin Study of Macular Pigment.

Wellcome Trust. £225,000

2003-2005. Investigators: Gilbert, Beatty, Spector, Marshall, Fitzke, Hammond

Study of genetic factors in optic discs and glaucoma.

Australian MRC. \$30,000

2002-2004. Investigators: Healey, Hammond, Mitchell, Spector

Collaborations:

I have extensive international collaborations, demonstrating a significant level of esteem among colleagues working the field of genetic epidemiology. These include:

Dr Ananth Viswanathan and Prof Paul Mitchell, WTCCC2/Blue Mountains Eye Study cohort: glaucoma and cataract GWAS

Prof Jugnoo Rahi, ICH, UCL: myopia genetic epidemiology

Prof David Mackey, Lions Eye Institute, Perth UWA: twin studies

Prof Terri Young, Duke University, USA: international myopia collaboration

Prof Caroline Klaver, Prof Cornelia van Duijn and others in the Rotterdam Eye Study

Dr Jelle Vehof, UMCG, the Netherlands: dry eye

Ass Prof Seang Saw Mei, Singapore: SCORM myopia and Asian GWAS

Prof Alan Wright & Dr Veronique Vitart at MRC HGU, Edinburgh: high myopia genes, corneal thickness genetics

Dr Sudha Iyengar, Cleveland: cataract genetics

Prof Barbara and Ron Klein, Beaver Dam (Wisconsin): complex trait gen. epidemiology

Prof Sheila West, Johns Hopkins University: cataract and aging

Dr Paul Healey, Sydney: optic disc genetics

Dr Cathy McCarty, Marshfield Clinic: GWAS cataract

Prof Paul Mitchell, Sydney and Prof Tien Wong (Singapore): retinal vessel genetics

Dr Mingguan He, China: twin myopia project

Prof Joan Bailey-Wilson, NIH: myopia genetics

Dr Fion Bremner, UCLH: pupils

Dr René Höhn, Gutenberg Health Study

Publications

Fall T, Hägg S, Mägi R, Ploner A, Fischer K, Horikoshi M, Sarin AP, Thorleifsson G, Ladvall C, Kals M, Kuningas M, Draisma HH, Ried JS, van Zuydam NR, Huikari V, Mangino M, Sonestedt E, Benyamin B, Nelson CP, Rivera NV, Kristiansson K, Shen HY, Havulinna AS, Dehghan A, Donnelly LA, Kaakinen M, Nuotio ML, Robertson N, de Bruijn RF, Ikram MA, Amin N, Balmforth AJ, Braund PS, Doney AS, Döring A, Elliott P, Esko T, Franco OH, Gretarsdottir S, Hartikainen AL, Heikkilä K, Herzig KH, Holm H, Hottenga JJ, Hyppönen E, Illig T, Isaacs A, Isomaa B, Karssen LC, Kettunen J, Koenig W, Kuulasmaa K, Laatikainen T, Laitinen J, Lindgren C, Lyssenko V, Läärä E, Rayner NW, Männistö S, Pouta A, Rathmann W, Rivadeneira F, Ruukonen A, Savolainen MJ, Sijbrands EJ, Small KS, Smit JH, Steinthorsdottir V, Syvänen AC, Taanila A, Tobin MD, Uitterlinden AG, Willems SM, Willemsen G, Witteman J, Perola M, Evans A, Ferrières J, Virtamo J, Kee F, Tregouet DA, Arveiler D, Amouyel P, Ferrario MM, Brambilla P, Hall AS, Heath AC, Madden PA, Martin NG, Montgomery GW, Whitfield JB, Jula A, Knekt P, Oostra B, van Duijn CM, Penninx BW, Davey Smith G, Kaprio J, Samani NJ, Gieger C, Peters A, Wichmann HE, Boomsma DI, de Geus EJ, Tuomi T, Power C, **Hammond CJ**, Spector TD, Lind L, Orho-Melander M, Palmer CN, Morris AD, Groop L, Järvelin MR, Salomaa V, Vartiainen E, Hofman A, Ripatti S, Metspalu A, Thorsteinsdottir U, Stefansson K, Pedersen NL, McCarthy MI, Ingelsson E, Prokopenko I; for the European Network for Genetic and Genomic Epidemiology (ENGAGE) consortium. The Role of Adiposity in Cardiometabolic Traits: A Mendelian Randomization Analysis. *PLoS Med.* 2013 Jun; 10(6): e1001474. Epub 2013 Jun 25.

Yazar S, Mishra A, Ang W, Kearns LS, Mountain JA, Pennell C, Montgomery GW, Young TL, **Hammond CJ**, Macgregor S, Mackey DA, Hewitt AW. Interrogation of the platelet-derived growth factor receptor alpha locus and corneal astigmatism in Australians of Northern European ancestry: Results of a genome-wide association study. *Mol Vis.* 2013 Jun 6; 19: 1238-46

Mahroo OA, Gavin EA, Williams KM, De Smit E, **Hammond CJ**, Morrison DA. Potential effect of 'cut-off intensity' on correlation between light meter measurements and time outdoors. *Eye (Lond).* 2013 May 24. doi: 10.1038/eye.2013.88. [Epub ahead of print]

Nag A, Venturini C, Hysi PG, Arno M, Aldecoa-Otalora Astarloa E, Macgregor S, Hewitt AW, Young TL, Mitchell P, Viswanathan AC, Mackey DA, **Hammond CJ**. Copy number variation at chromosome 5q21.2 is associated with intraocular pressure. *Invest Ophthalmol Vis Sci.* 2013 May 1; 54(5): 3607-12

McKay GJ, Loane E, Nolan JM, Patterson CC, Meyers KJ, Mares JA, Yonova-Doing E, **Hammond CJ**, Beatty S, Silvestri G. Investigation of Genetic Variation in Scavenger Receptor Class B, Member1 (SCARB1) and Association with Serum Carotenoids. *Ophthalmology.* 2013 Apr 5. pii: S0161-6420(13)00045-6. doi: 10.1016/j.ophtha.2013.01.030. [Epub ahead of print]

Oualkacha K, Dastani Z, Li R, Cingolani PE, Spector TD, **Hammond CJ**, Richards JB, Ciampi A, Greenwood CM. Adjusted sequence kernel association test for rare variants controlling for cryptic and family relatedness. *Genet Epidemiol.* 2013 May; 37(4): 366-76

Williams KM, Hysi PG, Nag A, Yonova-Doing E, Venturini C, **Hammond CJ**. Age of myopia onset in a British population-based twin cohort. *Ophthalmic Physiol Opt.* 2013 May; 33(3): 339-45

Hawthorne F, Feng S, Metlapally R, Li YJ, Tran-Viet KN, Guggenheim JA, Malecaze F, Calvas P, Rosenberg T, Mackey DA, Venturini C, Hysi PG, **Hammond CJ**, Young TL. Association Mapping of the High-grade Myopia MYP3 Locus Reveals Novel Candidates UHRF1BP1L, PTPRR and PPFIA2. *Invest Ophthalmol Vis Sci.* 2013 Mar 21; 54(3): 2076-86

Verhoeven VJ, Hysi PG, Wojciechowski R, Fan Q, Guggenheim JA, Höhn R, MacGregor S, Hewitt AW, Nag A, Cheng CY, Yonova-Doing E, Zhou X, Ikram MK, Buitendijk GH, McMahon G, Kemp JP, Pourcain BS, Simpson CL, Mäkelä KM, Lehtimäki T, Kähönen M, Paterson AD, Hosseini SM, Wong HS, Xu L, Jonas JB, Pärssinen O, Wedenoja J, Yip SP, Ho DW, Pang CP, Chen LJ, Burdon KP, Craig JE, Klein BE, Klein R, Haller T, Metspalu A, Khor CC, Tai ES, Aung T, Vithana E, Tay WT, Barathi VA; Consortium for Refractive Error and Myopia (CREAM), Chen P, Li R, Liao J, Zheng Y, Ong RT, Döring A; Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Research Group, Evans DM, Timpson NJ, Verkerk AJ, Meitinger T, Raitakari O, Hawthorne F, Spector TD, Karssen LC, Pirastu M, Murgia F, Ang W; Wellcome Trust Case Control Consortium 2 (WTCCC2), Mishra A, Montgomery GW, Pennell CE, Cumberland PM, Cotlarciuc I, Mitchell P, Wang JJ, Schache M, Janmahasathian S, Igo RP Jr, Lass JH, Chew E, Iyengar SK; Fuchs' Genetics Multi-Center Study Group, Gorgels TG, Rudan I, Hayward C, Wright AF, Polasek O, Vataavuk Z, Wilson JF, Fleck B, Zeller T, Mirshahi A, Müller C, Uitterlinden AG, Rivadeneira F, Vingerling JR, Hofman A, Oostra BA, Amin N, Bergen AA, Teo YY, Rahi JS, Vitart V, Williams C, Baird PN, Wong TY, Oexle K, Pfeiffer N, Mackey DA, Young TL, van Duijn CM, Saw SM, Bailey-Wilson JE, Stambolian D, Klaver CC, **Hammond CJ**. Genome-wide meta-analyses of multiethnic cohorts identify multiple new susceptibility loci for refractive error and myopia. *Nature Genetics.* 2013 Mar; 45(3): 314-8

Moayyeri A, **Hammond CJ**, Hart DJ, Spector TD. The UK Adult Twin Registry (TwinsUK Resource). *Twin Res Hum Genet.* 2013 Feb; 16(1): 144-9

Lopes MC, Hysi PG, Verhoeven VJ, Macgregor S, Hewitt AW, Montgomery G, Cumberland P, Vingerling JR, Young T, van Duijn CM, Oostra B, Uitterlinden AG, Rahi JS, Mackey DA, Klaver CC, Andrew T, **Hammond CJ**. Identification of a candidate gene for astigmatism. *Invest Ophthalmol Vis Sci.* 2013 Feb 1; 54(2): 1260-7

Lu Y, Vitart V, Burdon KP, Khor CC, Bykhovskaya Y, Mirshahi A, Hewitt AW, Koehn D, Hysi PG, Ramdas WD, Zeller T, Vithana EN, Cornes BK, Tay WT, Tai ES, Cheng CY, Liu J, Foo JN, Saw SM, Thorleifsson G, Stefansson K, Dimasi DP, Mills RA, Mountain J, Ang W, Hoehn R, Verhoeven VJ, Grus F, Wolfs R, Castagne R, Lackner KJ, Springelkamp H, Yang J, Jonasson F, Leung DY, Chen LJ, Tham CC, Rudan I, Vataavuk Z, Hayward C, Gibson J, Cree AJ, Macleod A, Ennis S, Polasek O, Campbell H, Wilson JF, Viswanathan AC, Fleck B, Li X, Siscovick D, Taylor KD, Rotter JI, Yazar S, Ulmer M, Li J, Yaspan BL, Ozel AB, Richards JE, Moroi SE, Haines JL, Kang JH, Pasquale LR, Allingham RR, Ashley-Koch A; NEIGHBOR Consortium, Mitchell P, Wang JJ, Wright AF, Pennell C, Spector TD, Young TL, Klaver CC, Martin NG, Montgomery GW, Anderson MG, Aung T, Willoughby CE, Wiggs JL, Pang CP, Thorsteinsdottir U, Lotery AJ, **Hammond CJ**, van Duijn CM, Hauser MA, Rabinowitz YS, Pfeiffer N, Mackey DA, Craig JE, Macgregor S, Wong TY. Genome-wide association analyses identify multiple loci associated with central corneal thickness and keratoconus. *Nat Genet.* 2013 Feb; 45(2): 155-63

Moayyeri A, **Hammond CJ**, Valdes AM, Spector TD. Cohort Profile: TwinsUK and Healthy Ageing Twin Study. *Int J Epidemiol.* 2013 Feb; 42(1): 76-85

Hancock DB*, Soler Artigas M*, Gharib SA*, Henry A*, Manichaikul A*, Ramasamy A*, Loth DW*, Imboden M, Koch B, McArdle WL, Smith AV, Smolonska J, Sood A, Tang W, Wilk JB, Zhai G, Zhao JH, Aschard H, Burkart KM, Curjuric I, Eijgelsheim M, Elliott P, Gu X, Harris TB, Janson C, Homuth G, Hysi PG, Liu JZ, Loehr LR, Lohman K, Loos RJF, Manning AK, Marciante KD, Obeidat M, Postma DS, Aldrich MC, Brusselle GG, Chen T-H, Eiriksdottir G, Franceschini N, Heinrich J, Rotter JI, Wijmenga C, Williams OD, Bentley AR, Hofman A, Laurie CC, Lumley T, Morrison AC, Joubert BR, Rivadeneira F, Couper DJ, Kritchevsky SB, Liu Y, Wjst M, Wain LV, Vonk JM, Uitterlinden AG, Rochat T, Rich SS, Psaty BM, O'Connor GT, North KE, Mirel DB, Meibohm B, Launer LJ, Khaw K-T, Hartikainen A-L, **Hammond CJ**, Gläser S, Marchini J, Kraft P, Wareham NJ, Völzke H, Stricker BHC, Spector TD, Probst-Hensch NM, Jarvis D, Jarvelin M-R, Heckbert SR, Gudnason V, Boezen HM, Barr RG, Cassano PA[†], Strachan DP[†], Fornage M[†], Hall IP[†], Dupuis J[†], Tobin MD[†], London SJ[†]. Genome-wide joint meta-analysis of SNP and SNP-by-smoking interaction identifies novel loci for pulmonary function. *PLoS Genet.* 2012; 8(12): e1003098. *These authors contributed equally to this work. [†]These authors jointly directed the work.

Amin N, Byrne E, Johnson J, Chenevix-Trench G, Walter S, Nolte IM; kConFab Investigators, Vink JM, Rawal R, Mangino M, Teumer A, Keers JC, Verwoert G, Baumeister S, Biffar R, Petersmann A, Dahmen N, Doering A, Isaacs A, Broer L, Wray NR, Montgomery GW, Levy D, Psaty BM, Gudnason V, Chakravarti A, Sulem P, Gudbjartsson DF, Kiemeny LA, Thorsteinsdottir U, Stefansson K, van Rooij FJ, Aulchenko YS, Hottenga JJ, Rivadeneira FR, Hofman A, Uitterlinden AG, **Hammond CJ**, Shin SY, Ikram A, Witteman JC, Janssens AC, Snieder H, Tiemeier H, Wolfenbuttel BH, Oostra BA, Heath AC, Wichmann E, Spector TD, Grabe HJ, Boomsma DI, Martin NG, van Duijn CM. Genome-wide association analysis of coffee drinking suggests association with CYP1A1/CYP1A2 and NRCAM. *Mol Psychiatry*. 2012 Nov; 17(11): 1116-29

Mishra A, Yazar S, Hewitt AW, Mountain JA, Ang W, Pennell CE, Martin NG, Montgomery GW, **Hammond CJ**, Young TL, Macgregor S, Mackey DA. Genetic variants near PDGFRA are associated with corneal curvature in Australians. *Invest Ophthalmol Vis Sci*. 2012 Oct 11; 53(11): 7131-6

Sanfilippo PG, **Hammond CJ**, Staffieri SE, Kearns LS, Melissa Liew SH, Barbour JM, Hewitt AW, Ge D, Snieder H, Mackinnon JR, Brown SA, Lorenz B, Spector TD, Martin NG, Wilmer JB, Mackey DA. Heritability of Strabismus: Genetic Influence Is Specific to Eso-Deviation and Independent of Refractive Error. *Twin Res Hum Genet*. 2012 Oct; 15(5): 624-30

Moayyeri A, **Hammond CJ**, Hart DJ, Spector TD. Effects of age on genetic influence on bone loss over 17 years in women: the Healthy Ageing Twin Study (HATS). *J Bone Miner Res*. 2012 Oct; 27(10): 2170-8. doi: 10.1002/jbmr.1659.

Livshits G, Malkin I, Moayyeri A, Spector TD, **Hammond CJ**. Association of FTO gene variants with body composition in UK twins. *Ann Hum Genet*. 2012 Sep; 76(5): 333-41. doi: 10.1111/j.1469-1809.2012.00720.x.

Verhoeven VJ, Hysi PG, Saw SM, Vitart V, Mirshahi A, Guggenheim JA, Cotch MF, Yamashiro K, Baird PN, Mackey DA, Wojciechowski R, Ikram MK, Hewitt AW, Duggal P, Janmahasatian S, Khor CC, Fan Q, Zhou X, Young TL, Tai ES, Goh LK, Li YJ, Aung T, Vithana E, Teo YY, Tay W, Sim X, Rudan I, Hayward C, Wright AF, Polasek O, Campbell H, Wilson JF, Fleck BW, Nakata I, Yoshimura N, Yamada R, Matsuda F, Ohno-Matsui K, Nag A, McMahon G, Pourcain BS, Lu Y, Rahi JS, Cumberland PM, Bhattacharya S, Simpson CL, Atwood LD, Li X, Raffel LJ, Murgia F, Portas L, Despriet DD, van Koolwijk LM, Wolfram C, Lackner KJ, Tönjes A, Mägi R, Lehtimäki T, Kähönen M, Esko T, Metspalu A, Rantanen T, Pärssinen O, Klein BE, Meitinger T, Spector TD, Oostra BA, Smith AV, de Jong PT, Hofman A, Amin N, Karssen LC, Rivadeneira F, Vingerling JR, Eiríksdóttir G, Gudnason V, Döring A, Bettecken T, Uitterlinden AG, Williams C, Zeller T, Castagné R, Oexle K, van Duijn CM, Iyengar SK, Mitchell P, Wang JJ, Höhn R, Pfeiffer N, Bailey-Wilson JE, Stambolian D, Wong TY, **Hammond CJ**, Klaver CC. Large scale international replication and meta-analysis study confirms association of the 15q14 locus with myopia. The CREAM consortium. *Hum Genet*. 2012 Sep; 131(9): 1467-80

Hammond CJ, Liew SM, Van Kuijk FJ, Beatty S, Nolan JM, Spector TD, Gilbert C. The Heritability of Macular Response to Supplemental Lutein and Zeaxanthin: a Classical Twin Study. *Invest Ophthalmol Vis Sci*. 2012 Jul 26; 53(8): 4963-8

van Koolwijk LM, Ramdas WD, Ikram MK, Jansonius NM, Pasutto F, Hysi PG, Macgregor S, Janssen SF, Hewitt AW, Viswanathan AC, ten Brink JB, Hosseini SM, Amin N, Despriet DD, Willemse-Assink JJ, Kramer R, Rivadeneira F, Struchalin M, Aulchenko YS, Weisschuh N, Zenkel M, Mardin CY, Gramer E, Welge-Lüssen U, Montgomery GW, Carbonaro F, Young TL; DCCT/EDIC Research Group, Bellenguez C, McGuffin P, Foster PJ, Topouzis F, Mitchell P, Wang JJ, Wong TY, Cudowska MA, Hofman A, Uitterlinden AG, Wolfs RC, de Jong PT, Oostra BA, Paterson AD; Wellcome Trust Case Control Consortium 2, Mackey DA, Bergen AA, Reis A, **Hammond CJ**, Vingerling JR, Lemij HG, Klaver CC, van Duijn CM. Common genetic determinants of intraocular pressure and primary open-angle glaucoma. *PLoS Genet*. 2012 May; 8(5): e1002611. Epub 2012 May 3.

Mahroo OA, **Hammond CJ**, Williamson TH. Choice of analytic approach for eye-specific outcomes: one eye or two? *Am J Ophthalmol*. 2012 Apr; 153(4): 781-2

Mahroo OA, Ban VS, Busmann BM, Copley HC, **Hammond CJ**, Lamb TD. Modelling the initial phase of the human rod photoreceptor response to the onset of steady illumination. *Doc Ophthalmol*. 2012 Apr; 124(2): 125-31

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Book Chapters

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Named Lectures

Chris Chew Memorial Lecture (Walsall 2013)

Finlayson Lecture (Royal College of Physicians and Surgeons of Glasgow, Glasgow 2013)

Ridley Medal Lecture (St Thomas' 'Trends in Ophthalmology' Meeting, London 2013)

Raine Visiting Professor Lecture (University of Western Australia, Perth WA 2012)

Presentations (in last year):

King's Health Partners Ophthalmology Research Meeting (London), European Eye Epidemiology (E3) Workshop (Bordeaux), Guy's and St Thomas' NHS Foundation Trust National Neurofibromatosis 2 Meeting (London), Chris Chew Memorial Lecture (Walsall), Irish College of Ophthalmologists Annual Congress (Killarney), Royal College of Ophthalmologists Annual Congress (Liverpool), 2013 ARVO Annual Meeting (Seattle), The Impact of Genomics on Public Health (Cardiff), Genetics in Retinal Disease (Ghent), TEDx KingsCollegeLondon (London), Royal College of Physicians and Surgeons of Glasgow Spring Ophthalmology Symposium (Glasgow), Strabismus Simulation Training Day for Ophthalmology ST3's and ST4's in association with London Deanery (London), St Thomas' 'Trends in Ophthalmology' Meeting (London), Eye Genetics Group (London), Astigmatism Forum (Toulouse), Frost Professor of Ophthalmology Inaugural Lecture (King's College London), Raine Visiting Professor (University of Western Australia), European Eye Epidemiology (E3) Workshop (France)

Training and Teaching

- **PhD Students**
 - Dr Katie Williams (start October 2012)
 - Cognitive, behavioural, environmental and genetic associations of myopia in the Twins Early Development Study
 - Dr Abhishek Nag (start October 2011)
 - Rare variants in glaucoma: a whole-genome sequencing study
 - Dr Samantha Fahy (PhD awarded 2011)
 - Genetics and epidem of retinal vessel calibre as a marker of CVD
 - Dr Margarida Lopes (PhD awarded 2010)
 - The Genetic Epidemiology of Astigmatism
 - Dr Francis Carbonaro (PhD awarded 2009)
 - Genetic Epidemiology of Glaucoma Endophenotypes-a Twin Study
- **Regional Adviser, SE Thames: RCOphth/London Deanery 2007-2013**
 - RITAs, ARCPs, interviews etc
 - Member London Deanery Ophthalmology School Board, Ophthalmology Executive Committee, RCOphth Regional Advisers and TPD Committee
 - Implementing WBA training
 - Supervision of post-MMC ST1 and ST2 new programmes
- **Training Programme Director, London/KSS Ophthalmology Rotation, London Deanery 2002-2007**
 - Shortlisting, interviews, NTNs and LAT posts
 - RITAs, STC, Royal College meetings
 - Careers advice, MMC implementation
- **Clinical Teaching:**
 - Weekly orthoptic/motility clinic teaching session
 - Weekly postgraduate teaching at St Thomas' Hospital
 - St Thomas' Strabismus Course (2 weekends/year)

- **Other Teaching/Examining:**
 - Intercalated BSc lecturer 6BBYG305 Inherited disorders of the eye and 6BBYG306 The Genetics of Age-Related Macular Degeneration and Myopia
 - BSc Nutrition lecturer 6MNTNGG3 Nutrition and Genetics
 - City University School of Health Sciences Optometry Assessment Board
 - Standard Setting Committee and Question Setter, College of Optometrists
 - Nuffield Bursary Studentships x2, BClinSci (Peninsula) student attachment 2011-12
 - Organizer, SE Thames Regional Study Days 2004, 2006, 2009 at PRUH

- **PhD Examining**
 - KCL (Dr Viswanathan), UCL (Dr Shah, Dr Solebo, Dr Sergouniotis), LSHTM (Dr Augood), Univ Leicester (Dr Hall), Univ Melbourne (Dr Dirani), Erasmus (Dr Ramdas)

Other Positions

- Annual Meeting Program Committee, ARVO 2008-2011, Chair 2010-11
- Ophthalmology National CRN member 2008-
- Ophthalmology Lead for London South CLRN 2009-
- Ophthalmic Research Advisory Group, Guide Dogs for the Blind 2011-
- London Deanery Ophthalmology School Board and Ophthalmology Executive Committee 2009-
- Therapeutics Panel, College of Optometrists
- Editorial Board member, Ophthalmic Epidemiology
- Board Member, Society of Clinical Ophthalmology
- Board Member, Ophthalmic and Physiological Optics
- Advisory Board Member, Translation of Genetic Eye Research (TOGER)
- Academic Group, Royal College of Ophthalmologists
- Member, Local Research Ethics Committee 2001-2006
- Director of Audit and Clinical Governance, WKEC 2000-2011

Management

- Director, Paediatric Ophthalmology Service 2000-2011
 - Orthoptic team, optometrist service, LOC liaison, journal clubs, teaching, Child Health Surveillance Committee, paediatric LVA clinic
- **Clinical Director** September 2004 – September 2010
 - 6 consultants
 - 3 trainees, 2 associate specialists, 3 staff grades, 3 clinical assistants
 - Local Optical Committee
 - Drugs and Therapeutics Committee
 - Surgical Directorate meetings
 - Introduction of:
 - Medisoft audit software
 - One-stop cataract clinics
 - Glaucoma nurse practitioner
- Member, TwinsUK Resource Executive Committee, Department of Twin Research 2008-
 - Collaborations, Finances, Strategy, Recruitment of staff

Management Training

“Fit to Lead” NHS Management Course

Reviews

I am a reviewer for numerous journals, including Nature Genetics, American Journal of Human Genetics, Investigative Ophthalmology and Vision Science, Ophthalmology, Ophthalmic Epidemiology, Clinical and Experimental Ophthalmology, American Journal of Ophthalmology, Eye, British Journal of Ophthalmology, Human Molecular Genetics.

Membership of Societies

British Eye Study Group

Royal College of Ophthalmologists

British Isles Strabismus Association

International Society of Epidemiology and Geographic Ophthalmology

Association for Research into Vision and Ophthalmology

European Pediatric Ophthalmology Society

European Strabismological Association

Oxford Congress

British Medical Association