

MICHEL MICHAELIDES

Date of birth: 1 January 1973

Present Appointment

2014- Professor of Ophthalmology, UCL Institute of Ophthalmology, London and
Consultant Ophthalmic Surgeon, Moorfields Eye Hospital (MEH), London

Previous Appointments

2010-2014 Clinical Senior Lecturer, UCL Institute of Ophthalmology, London
2009-2010 Ocular Genetics and Paediatric Ophthalmology Fellowships
Casey Eye Institute, Portland, Oregon, USA
2008-2009 Medical Retina Fellowship, Moorfields Eye Hospital, London
2004-2008 Specialist Registrar Training, Moorfields Eye Hospital, Charing Cross University
Hospital, and Whipps Cross University Hospital, London
2002-2004 Clinical Research Fellow, UCL Institute of Ophthalmology & Moorfields Eye Hospital,
Professors A.T. Moore, D.M. Hunt & J.D. Mollon

Qualifications

1994 Intercalated BSc Pharmacology, 1st Class (Kings College London)
1997 MB BS (Kings College London)
2001 MRCOphth
2004 MD (University College London)
2008 FRCOphth
2012 FACS (American College of Surgeons)

Positions, Appointments and Affiliations

2010- Member of the Moorfields Retinal Research Facilitation Group

2013- External Examiner for the Investigative Ophthalmology and Vision Sciences MSc course
at Manchester University
Co-Director of Moorfields Eye Hospital Medical Retina Fellowship Programme
Specialised Ophthalmology National Clinical Reference Group Stakeholder
Lead of the Medical Retina Local Faculty Group
Medical Retina Representative on the Specialist Services Education Committee

2014- Clinician-Scientist Representative on the Quality Review Group
Deputy to lead academic representative on Ophthalmology Specialty Advisory Group

2016- Examiner for FRCOphth

2017 Invited Inherited Retinal Disease Expert at NICE Scoping Workshop

2012-13 Medical Retina and Ophthalmic Genetics Lead on the Specialised Ophthalmology
National Clinical Reference Group

2010-18 Clinical Lead for Electrophysiology at Moorfields Eye Hospital

2010- Fellow, Royal College of Ophthalmologists
Member, American Academy of Ophthalmology
Member, The Association for Research in Vision and Ophthalmology

Awards and Prizes

- 1993 Inchley Prize in Pharmacology
Medical Research Council Scholarship for Intercalated BSc.
- 1994 Astra Prize for Cardiovascular Pharmacology
Zeneca Prize for Best Intercalated Medical Student
- 1996 Cargill Prize in Ophthalmology
Legg Prize in Surgical Pathology
- 1997 Oram Prize in Cardiology
Blair-Bell Prize in Gynaecology
Almond Prize in Diseases of Children
- 2010 International Guest Scholar, American College of Surgeons (not previously awarded to an ophthalmologist)
Department of Health/HEFCE 'New Blood' Senior Lectureship Award
- 2011 Foundation Fighting Blindness Career Development Award (rarely awarded to a non-US resident)
- 2013 Elected to The Macula Society (one of few UK members)
Elected to The British Eye Study Group (invitation only)
- 2014 Elected to The Retina Society (one of few UK members)

Active Research Support

National Institute for Health Research (06/12-09/18; £1,968,305) Programme Grant for Applied Research: Towards an evidence-based clinical management of visual hallucinations: prevalence, prognosis, impact and pathophysiology. Co-PI.

National Eye Institute (NEI) of the National Institutes of Health (NIH) (R01EY017607; 10/17-10/21; \$312,000): Assessing photoreceptor structure and function: to J Carroll and M Michaelides.

Moorfields Eye Charity (2018-2020; £77,447): Oligonucleotide suppression of mis-splicing of the cone opsin genes as a potential therapeutic for X-linked cone dysfunction. Alison Hardcastle, Michel Michaelides (Co-PI), Mike Cheetham.

Medical Research Council (2018-2021; £488,172): Understanding the mechanisms of cone opsin mediated disease to develop new therapies. Alison Hardcastle, Michel Michaelides (Co-I), Mike Cheetham, Pete Coffey.

Medical Research Council (10/17-10/20; MR/P02582X/1; £571,950): Novel therapeutic approaches to rescue retinal dysfunction in patient-derived photoreceptors. Jacqueline van der Spuy, Michael Cheetham, Pete Coffey, James Bainbridge, Michel Michaelides (Co-I).

National Eye Institute (NEI) of the National Institutes of Health (NIH) (U01 EY024969-01; 05/15-04/20; \$4,400,000) Platform Technologies for Microscopic Retinal Imaging: Development & Translation: to A Dubra and J Carroll (CIs), D Brainard (PI), J Goldberg (PI), M Michaelides (PI), J Morgan (PI), J Rogers (PI) and R Rosen (PI).

Medical Research Council (07/13-07/18; £2,152,639): Clinical trial of gene therapy for the treatment of achromatopsia: to RR Ali, J Bainbridge and M Michaelides.

Moorfields Eye Charity (11/17-11/19; R170015A; £146,991): Developing a photoreceptor model of AIPL1 LCA from patient derived induced pluripotent stem cells. Jacqueline van der Spuy, Michel Michaelides (Co-I), Michael Cheetham.

RP Fighting Blindness and Fight for Sight (2014-2018; £1,000,000): To the consortium of the Inherited Retinal Disease Groups at Moorfields Eye Hospital/UCL Institute of Ophthalmology, Manchester, Oxford and Leeds, to fund molecular genetic screening and new gene identification in patients with Retinitis Pigmentosa. PIs at Moorfields Eye Hospital / UCL IoO are SS Bhattacharya, ME Cheetham, AJ Hardcastle, M Michaelides, V Plagnol and AR Webster.

Medical Research Council (2015-2020; £2,971,592): Clinical trial of gene therapy for the treatment of Leber congenital amaurosis: to RR Ali, J Bainbridge and M Michaelides.

Fight for Sight (2015-2019; £169,992): Assessing photoreceptor structure & function in X-linked RP associated with *RPGR* mutations using in-depth advanced phenotyping in preparation for intervention: to M Michaelides.

Teaching, Training and Mentoring

(1) Undertaking appraisals and facilitate CPD, including research projects, for 3 genetic counsellors and > 15 Medical Retina and Research Fellows.

(2) Co-Director of the Medical Retina Fellowship programme (2013-present) – following my leadership of a complete overhaul, 3 on-line surveys have demonstrated marked improvement in satisfaction & morale, with continued rating of our fellowship (30 fellows) as excellent from a position of it being rated as very poor – culminating in excellent candidates being attracted from USA, Australia, Canada & NZ.

(3) Under-/Post-graduate, and Ophthalmology Clinical and Research Teaching/Examining (2010-present):

(i) Three MSc Courses: Clinical Ophthalmology, Biology of Vision, and Ophthalmology (Retina)

(ii) ICH-MEH Paediatric Ophthalmology Course

(iii) MEH Macular Course

Regularly audit evaluations and achieve very high approval.

(4) External Examiner (Jan 2013-present) for Manchester University Investigative Ophthalmology & Vision Sciences MSc.

(5) Internal and External Examiner for > 10 MD(Res) and PhDs.

(6) MD(Res) and PhD Student Supervision-Training-Mentoring

(i) MD(Res) student (2010-2012); secondary supervisor; awarded MD(Res) 2013.

(ii) PhD student (2010-2013); primary supervisor; awarded PhD 2014.

(iii) PhD student (2012-2015); primary supervisor; awarded PhD 2015.

(iv) PhD student (2014-2017); primary supervisor; awarded PhD 2018.

(v) PhD student (2015-2018); primary supervisor; will submit PhD October 2018.

(vi) PhD student (2015-2018); primary supervisor; will submit PhD December 2018.

(vii) PhD student (2016-present); primary supervisor; will submit PhD 2019.

(viii) PhD student (2017-present); primary supervisor; will submit PhD 2020.

(ix) PhD student (2017-present); primary supervisor; will submit PhD 2020.

(x) PhD student (2017-present); primary supervisor; will submit PhD 2020.

(xi) PhD student (2016-present); secondary supervisor; will submit PhD 2020.

(xii) MD(Res) (2015-2017); primary supervisor; will submit MD(Res) December 2018.

(xiii) MD(Res) (2015-present); secondary supervisor; will submit 2018.

(xiv) MD(Res) (2016-present); secondary supervisor; will submit 2019.

(7) Invited to Chair and Establish an Annual Seminar Series for Inherited Retinal Disease at the Royal College of Ophthalmologists (2018)

Enabling and Leadership

(1) Public Engagement (PE) - Patient Days for Age-related Macular Degeneration (2014), Retina (2015), and Stargardt Disease (2017). Faculty of Brain Sciences awarded the Communications Excellence award in PE to Retina Day (2015).

Lead live webchat during MEH Rare Disease Day (2016).

(2) Invited by the NIHR Horizon Scanning Centre to provide expert input into a review on new and emerging technologies for inherited retinal diseases. This has been published by the NIHR (2014) and a manuscript published in EYE (2015).

(3) On-going provision of updated medical and research information for the Retinitis Pigmentosa Fighting Blindness website and helped to establish and inform the first standalone website for Stargardt Disease (2018).

(4) Participation in both the (i) Paediatric and (ii) Ophthalmology domains in the Genomics England Clinical Interpretation Partnership.

(5) Peer review for journals (*Eye*, *British Journal of Ophthalmology*, *Acta Ophthalmologica*, *Retina*, *American Journal of Ophthalmology*, *Prog Retin Eye Res*, *Ophthalmology*, and *Investigative Ophthalmology & Visual Science*).

(6) Peer review grants for national and international awarding bodies (The Guide Dogs for the Blind Association, NIHR, Wellcome Trust, MRC, National Eye Research Centre, The Netherlands Organisation for Health Research and Development Rare Diseases Programme, The Ophthalmic Research Institute of Australia, Foundation Fighting Blindness (USA), and Fondazione Roma)

(7) Invited by Director of the Wellcome Trust to be a Therapeutic Expert (Ophthalmology) to assist the Independent review panel for ClinicalStudyDataRequest.com

Invited Lectures

>50 since 2010 including:

(i) American College of Surgeons Annual Congress (2010)

(ii) Royal Society of Medicine sessions on Diabetic Macular Oedema and Paediatric Ophthalmology (2011 & 2013)

(iii) Keynote Lecture at the RP Fighting Blindness Annual General Meeting (2012)

(iv) National Ophthalmology Congresses including Argentina, Norway, Sweden, Denmark, Cyprus, Italy, Greece, Chile, Palestine, UAE (2012-18)

(v) National and International Meetings including Euretina, the American Academy of Ophthalmology, International Society for Eye Research, the Royal College of Ophthalmologists, Great Ormond Street Hospital, World Ophthalmology Congress, St John's Eye Hospital (2013-18)

(vi) Patient Organisations and Charities including Retina International, Fight for Sight, Macular Society, and Foundation Fighting Blindness (USA) (2011-18).