

Curriculum Vitae

Name: Marcus Ang

Current Appointments:

Senior Consultant, Cornea and Refractive Service, SNEC, Singapore
Associate Professor, Duke-National University of Singapore
Clinical Director, SNEC Myopia Centre

Academic Qualifications:

MBBS (2004): National University of Singapore
MMED (2009): National University of Singapore
MCI (2012): National University of Singapore
FRCS (2013): The Royal College of Surgeons, Scotland
FAMS (2013): Academy of Medicine, Singapore
PhD (2019): University of Groningen, Netherlands

Awards and Honors:

2020: Vision Excellence Award (International Agency for the Prevention of Blindness)
2019: Minister of Health Award (Singapore)
2019: ARTEMIS Award by the American Academy of Ophthalmology (AAO)
2019: American Academy of Ophthalmology (AAO): Achievement Award
2019: Outstanding Service in Prevention of Blindness Award (International, APAO)
2018: Asia-Pacific Academy of Ophthalmology (APAO): Achievement Award
2018: American Academy of Ophthalmology: International Ophthalmologist Education Award
2018: Gold Patient Quality Service Award – Singapore Health Services
2017: President’s Award for Volunteerism and Philanthropy
2017: The Ophthalmologist (International): Top 10 Rising Ophthalmologists in the World
2017: Patient Quality Service Award – Singapore Health Services
2016: Asia-Pacific Academy of Ophthalmology (APAO): Leadership Development Program
2015: Ministry of Health Scholarship Award – Cornea and Refractive Fellowship
2014: Singhealth Excellence Award – Distinguished Young Researcher
2013: American Academy of Ophthalmology Annual Meeting - Best Presentation
2013: Ophthalmology Fellowship Exams: Best Candidate (FAMS, Singapore)
2013: Best Registrar Award (Singapore Health Services)
2013: Excellence in Ophthalmology Vision Award (XOVA, International)
2013: Young Eye Care Ambassador (Eye & Vision Health Awards, Singapore)
2012: Healthcare Humanity Award (The Courage Fund, Singapore)
2010: ARVO International Travel Grant Award (ARVO, USA)
2008: Ministry of Health Scholarship, Singapore (MOH, Singapore)
2005: Best Houseman Award (National University of Singapore)
2004: Dean’s List for Final Professional MBBS (National University of Singapore)

Research (H-Index = 39; i-10 index = 98)

Summary: 163 Peer-reviewed articles; 36 Corresponding Author publications.

Top 10 Publications:

Rank	Article Title	Publication Name	Contribution	Year	Remarks
1	Refractive Surgery	LANCET	Corresponding Author	2019	Impact Factor 53.254
2	Anterior Segment Optical Coherence Tomography	Prog Retin Eye Res	First Author	2018	Impact Factor 11.587
3	Optical Coherence Tomography Angiography for Anterior Segment Vasculature Imaging.	Ophthalmology	Corresponding First Author	2015	Impact Factor 8.204
4	Randomized clinical trial comparing femtosecond laser in-situ keratomileusis and small incision lenticule extraction	Ophthalmology	Corresponding First Author	2019	Impact Factor 8.204
5	Five-Year Graft Survival Comparing Descemet Stripping Automated Endothelial Keratoplasty and Penetrating Keratoplasty.	Ophthalmology	First Author	2016	Impact Factor 8.204

6	Endothelial cell loss and graft survival after Descemet's stripping automated endothelial keratoplasty and penetrating keratoplasty.	Ophthalmology	First Author	2012	Impact Factor 8.204
7	Prevalence of and racial differences in pterygium: a multiethnic population study in Asians.	Ophthalmology	First Author	2012	Impact Factor 8.204
8	Indications, outcomes, and risk factors for failure in tectonic keratoplasty.	Ophthalmology	First Author	2012	Impact Factor 8.204
9	Deep anterior lamellar keratoplasty as an alternative to penetrating keratoplasty.	Ophthalmology	First Author	2011	Impact Factor 8.204
10	Diagnosis of tuberculous uveitis: clinical application of an interferon-gamma release assay.	Ophthalmology	First Author	2009	Impact Factor 8.204

Research Grants (Total award > SGD\$1.5mil)

Most recent: NHIC-I2D-1604104: Development of a Intravitreal Extraction Injection Device: A Novel Diagnostic-Therapeutic Device for the Eye (\$250,000, R1270/76/2015 + \$250,000: I2P NHIC Grant).

Conferences (2007-2020: 90 international presentations, 60 invited speaker/chair)

More Recent:

1. **2021: Invited Speaker and Chair:** Asia Cornea Society Meeting – Imaging in Cornea, Optical Coherence Tomography Angiography
2. **2020: Invited Speaker:** American Academy of Ophthalmology Annual Meeting – AAO Myopia Task Force Symposium Updates on Myopia Interventions
3. **2020: KEYNOTE Speaker for Virtual Ophthalmology Summit:** Innovations in Ophthalmology. Wenzhou, China
4. **2020: Invited Chair:** Cornea Symposium Global Education and Research Society of Ophthalmology Virtual Meeting.
5. **2020: Invited Chair and Speaker:** Young Ophthalmology Symposium, World Ophthalmology Congress (WOC) 2020 Virtual.
6. **2020: Invited Chair and Speaker:** Asia Pacific Ocular Imaging Symposium: Anterior Segment Optical Coherence Tomography Angiography
7. **2019: Invited speaker:** OCTA Choroid in Myopia. APVRS, Shanghai China.
8. **2019: KEYNOTE Speaker for Global Young Scientist Summit:** Innovations in Ophthalmology. Wenzhou, China
9. **2019: NAMED Lecture: Artemis Award Lecture** – Global Ophthalmology. American Academy of Ophthalmology (AAO). San Francisco. USA.
10. **2019: KEYNOTE Speaker for Cornea and Refractive Society of Thailand 2019:** Advances in Anterior Segment Imaging. Bangkok, Thailand 2019.

Patents:

1. 2013: Patent no: 201307391-1. Device for Simultaneous Suction and Decompression (TEC 13-05).
2. 2014: Patent no: 10201402414T. Apparatus and Method for Protecting Intraocular Tissues. (TEC-14-03).
3. 2014: US Patent ILO Ref: 14296N-US/PRV: Characterization of Viscoelastic, Nonlinear, Anisotropic And Heterogeneous Mechanical Properties of the Cornea In Vivo
4. 2015: Patent Application No.: 10201500664Q. An injection and extraction ophthalmic device (TEC 14-27)
5. 2015: Patent Application No.: 10201500662Y. A Fine Needle Device For Rapid And Painless Insertion (TEC 14-34)
6. 2020: Patent no. 10202008522X. A method of segmenting a volumetric image. (Singhealth TEC-20-11).

Book Chapters (10 published, 1 Editor) including: Surgical Techniques for Descemet's stripping endothelial keratoplasty. **4th edition of Mannis & Holland, CORNEA.** Elsevier.

Ophthalmology-related Organizations

2017-Current: Treasurer, Singapore Society of Ophthalmology
2017-Current: Secretary, APAO Young Ophthalmology Committee
2017-Current: APAO Standing Committee (LDP)