

SATURDAY 3<sup>th</sup>  
SEPTEMBER

18:30 - 20:00

WELCOME RECEPTION

Willem Burger Foyer

Sponsored by Johnson & Johnson  
VISION

SUNDAY 4<sup>th</sup>  
SEPTEMBER

7:00 - 8:00

EARLY MORNING RUN

Run activity through the heart of Rotterdam

9:00 - 9:10

OPENING CEREMONY

Willem Burger Zaal

9:10 - 10:30

MYOPIA AROUND THE WORLD

Willem Burger Zaal

Moderators *Caroline Klaver, Xiangui He*

9:10 Prevalence of Myopia Among Public Schoolchildren in Brazil  
*Patricia Ioschpe Gus*



9:20 The impact of uncorrected myopia on school-aged children, evidence from Kosovo  
*Eva Lazuka-Nicoulaud*

9:30 Estimates of myopia prevalence in UK 4-5 year olds from a large database of school vision screening  
*Dr Rakhee Shah*

9:40 Prevalence of myopia in the current young generation in the Netherlands  
*Caroline Klaver*

9:50 Epidemiology of premyopia among children aged 6-8 in Shanghai  
*Xiangui He*

10:00 Following Prevalence of Myopia in a Large Swiss Military Cohort over the Last Decade - Where is the European "Myopia Boom"?  
*Leila Eppenberger*

10:10 Improving population-level myopia monitoring via mixture distributions  
*Tim Fricke*



10:20 From hyperopic reserve to myopia: a narrative review  
*Ian Morgan*

10:30 - 11:00

BREAK

Jurilaanse Foyer, Van der Mandele Zaal & Grote Zaal

## CONTINUED

SUNDAY 4<sup>th</sup>  
SEPTEMBER

11:00 - 12:30	EXPERIMENTAL MODELS & MECHANISMS	Willem Burger Zaal
	<i>Moderators Beerend Winkelman, Scott Read</i>	
11:00	Regional variations in human macular choroidal thickness changes in response to blue light stimulation of the optic nerve head <i>Scott Read</i>	
11:10	Investigating myopia control using ChromaBlur <i>Xu Cheng</i>	
11:20	Myopia can be controlled by intervention in scleral endoplasmic reticulum stress <i>Shin-Ichi Ikeda</i>	
11:30	RNA-Seq Analysis Reveals an Essential Role of the Tyrosine Metabolic Pathway and Inflammation in Myopia-Induced Retinal Degeneration in Guinea Pigs <i>Ling Zeng</i>	TRAVEL GRANT RECIPIENT
11:40	A comparison of indoor and outdoor light exposures <i>Marcel Lucassen</i>	
11:50	Role of VEGF secreted from Retinal Pigment Epithelium in Choriocapillaris and Axial Length Maintenance <i>Yan Zhang</i>	TRAVEL GRANT RECIPIENT
12:00	Change in visual performance with multifocal contact lenses through a fixed pupil size <i>Augustine Nti</i>	TRAVEL GRANT RECIPIENT
12:10	Peripheral blur orientation provides the eye with a cue for the sign of defocus <i>Len Zheleznyak</i>	
12:30 - 13:30	LUNCH	Jurjaanse Foyer, Van der Mandele Zaal & Grote Zaal Foyer

12:40 - 14:10

**SPONSORED SESSION HOYA**  
*Van der Weelde Zaal*

**HOYA**  
FOR THE VISIONARIES

**New insights to advance Myopia Management – Treatment goal, clinical outcome of DIMS among European children, combination treatment and RPR**

Hoya is proud to present internationally rewarded practitioners and researchers in the Symposium to present new insights to support successful myopia management in practice. Dr. Hakan Kaymak will speak about the specific goal of myopia therapy and share the real-life data with the MIYOSMART in his clinic in Germany. Dr. Andrea Lembo presents a comparison of myopia control in Italian children with MIYOSMART spectacles, atropine, and combined MIYOSMART/atropine. Prof. Carly Lam explains how the myopia control effect is influenced by baseline relative peripheral refraction in children wearing MIYOSMART spectacle lenses over 6 years.

13:00 - 14:25

**SPONSORED SESSION SIGHTGLASS VISION**  
*Van der Vorm/Plate/ Van Rijkevorsel & Ruys Zaal*

**SG**  
SIGHTGLASS  
VISION

**The Science Behind Diffusion Optics Technology**



## CONTINUED

SUNDAY 4<sup>th</sup>  
SEPTEMBER

13:30 - 14:30 POSTERS *Feestzaal*

MYOPIA AROUND THE WORLD  
EXPERIMENTAL MODELS  
NEAR WORK AND BINOCULAR VISION  
PUBLIC HEALTH

14:30 - 15:30 KEYNOTE SPEAKER *Willem Burger Zaal*

*Moderator Christine Wildsoet*

Josh Wallman Memorial Lecture / Zeiss Young Investigator Award  
Myopia control and prevention: from life style to low concentration atropine  
*Jason C.S. Yam, Chinese University of Hong Kong*

15:30 - 16:30 MYOPIA MANAGEMENT STRATEGIES *Willem Burger Zaal*

*Moderators Jan Roelof Polling, Trine Møldrup Jakobsen*

15:30 Global trends in myopia management attitudes and strategies in clinical practice – 2022 International Myopia Institute Update  
*James Wolffsohn*

15:40 Practitioners' Perception on Myopia Management Practice in China  
*Monica Jong*

15:50 Descriptive statistical comparison of interventions for myopia control – a new analysis  
*Paul Gifford*

16:00 The Future of Clinical Trials of Myopia Control  
*Mark Bullimore*

16:10 Management of myopia in a Danish Hospital setting  
*Trine Møldrup Jakobsen*

16:30 - 20:00 SOCIAL DISCOVER DELFT TOUR

MONDAY 5<sup>th</sup>  
SEPTEMBER

7:50 - 8:35



**SPONSORED SESSION OCULUS**

*Van der Vorm/Plate/Van Rijkkevorsel @ Ruys Zaal*

**Master Myopia in Clinical Practice**

How to perform myopia management in clinical practice based on latest research knowledge is introduced by 3 international experts: Prof Sankaridurg, Dr Paune and Dr Kaymak will present insights on their research and how to use it in daily practice.

8:50 - 10:30

**IMAGING & BIOMETRY 1**

*Willem Burger Zaal*

*Moderators Audrey Chia, Li Lian Foo*

- |       |   |                        |
|-------|---|------------------------|
| 8:50  | The Refractive Mechanism Map: application of a biometric definition of refractive error in myopia research<br><i>Ian Flitcroft</i>  |                        |
| 9:00  | Comparison of Superficial and Deep Retinal Layer Thickness Ratios for Diagnosing Glaucoma in Low and High Myopia<br><i>Rachel Chong</i>   |                        |
| 9:10  | Association of optic disc abnormalities with refractive error and OCT measurements in myopic children<br><i>Audrey Chia</i>   |                        |
| 9:20  | Comparing the orientations of fibers of the peripapillary sclera of healthy volunteers and high myopia patients with polarization-sensitive optical coherence tomography<br><i>Joy Willemse</i> |                        |
| 9:30  | Two-years evolution of two-dimensional peripheral refraction in children<br><i>Zhenghua Lin</i>   |                        |
| 9:40  | Eye growth patterns measured with refractive error or axial length<br><i>Sander Kneepkens</i>   |                        |
| 9:50  | Predicting cycloplegic refraction from noncycloplegic parameters in Chinese young adults and children<br><i>Yunyun Sun</i>  |                        |
| 10:00 | Deep Learning System to Predict the 5-year Risk of High Myopia using Fundus Imaging in Children<br><i>Li Lian Foo</i>   | TRAVEL GRANT RECIPIENT |
| 10:20 | Novel imaging and deep learning techniques for assessing myopia<br><i>Leopold Schmetterer</i>   |                        |

10:30 - 11:00

**BREAK**

*Jurjaanse Foyer, Van der Mandele Zaal @ Grote Zaal Foyer*



## CONTINUED

MONDAY 5<sup>th</sup>  
SEPTEMBER

11.00 - 12:30		ANIMAL MODELS	Willem Burger Zaal
<i>Moderators Christina Zeitz, Adriana Iglesias</i>			
11:00	The development of high myopia in the guinea pig	Sally McFadden	
11:10	L opsin expression is reduced in eyes treated with diffusers and negative lenses in the chicken model	Sandra Gisbert Martinez	
11:20	Post-GWAS screening of candidate genes for refractive error in mutant zebrafish models	Adriana Iglesias	
11:30	Analysis of Genetic Networks Regulating Myopic Eye Growth Susceptibility in a Guinea Pig Model	Liqin Jiang	
11:40	Mice with ON-bipolar cell defect develop high myopia	Wilmet Baptiste	
11:50	Scleral Cross-Linking in Form-Deprivation Myopic Guinea Pig Eyes leads to Glaucomatous Changes	Lei Guo	
12:00	Atropine reduces axial elongation in a mouse model of syndromic myopia without altering retinal dopaminergic activity	Emilie van der Sande	
12:10	A-type horizontal cell coupling is bidirectionally associated with the sign of ocular defocus	William Myles	TRAVEL GRANT RECIPIENT
12:20	Shedding light on myopia by studying congenital stationary night blindness	Christina Zeitz	

## 12:30 - 13:30 LUNCH

12:40 - 14:10

## SPONSORED SESSION COOPERVISION

Van der Weelde Zaal

**What we've learned and what questions remain after the 7-year MiSight® 1 day clinical trial**

Senior Director Paul Chamberlain and Clinical Research Fellow Arthur Bradley will update attendees on how the 7-year MiSight® 1 day clinical study has helped address many of the key questions in this rapidly evolving field of science. CooperVision have led the way in bringing clinically useful interventions supported by robust scientific evidence to eye care professionals all over the world and this session will demonstrate CooperVision's commitment to advance the scientific understanding of myopia. We also review the outstanding questions that remain in the quest to manage myopia responsibly and effectively so as many myopic children as possible can be treated appropriately.

13:00 - 14:25

## SPONSORED SESSION TOPCON

Van der Vorm/Plate/Van Rijckevorsel @ Ruys Zaal

**Innovations in Myopia: from Research to Myopia Management Applications**


## CONTINUED

MONDAY 5<sup>th</sup>  
SEPTEMBER

13:30 - 14:30 POSTERS *Feestzaal*

IMAGING AND BIOMETRY  
ANIMAL MODELS  
PHARMACOLOGICAL INTERVENTIONS  
RISK PROFILES

14:30 - 15:30 KEYNOTE SPEAKER *Willem Burger Zaal*

Moderator *Virginie Verhoeven*

Chew Sek-jin Memorial Lecture - Myopia is in everyone's DNA  
*Joan Bailey-Wilson, the National Human Genome Research Institute (NHGRI),  
National Institutes of Health (NIH)*

15:30 - 16:40 RISK PROFILES *Willem Burger Zaal*

Moderators *Teele Palumaa, David Mackey*

- 15:30 Distribution of axial length in Australians of different age groups, ethnicities and refractive errors  
*David Mackey*
- 15:40 Retinal photon dosing in eyes with different axial lengths  
*John Bolger*
- 15:50 Estimating the risk for long-term myopia progression using a training-free method  
*Jos Rozema*
- 16:00 Young children with fast axial length growth also progress faster during teenage years  
*Willem Tideman*
- 16:10 Association between chronotype and refractive error  
*Teele Palumaa* TRAVEL GRANT RECIPIENT
- 16:20 Myopia and screentime in 6-7-year-old schoolchildren: a cross-sectional analysis from the Ireland Eye Study  
*Siofra Harrington*
- 16:30 Accommodative facility and response time before and after near task of varying durations in young adults  
*Asha Kaliugavaradhan*

16:40 - 17:00 BREAK *Jurilaanse Foyer, Van der Mandele Zaal & Grote Zaal Foyer*

17:00 - 17:30 IMAGING & BIOMETRY 2 *Willem Burger Zaal*

Moderators *Ranjay Chakraborty, Willem Tideman*

- 17:00 Association between Peripheral Refraction and Corresponding Electro-Retinal Signals  
*Ranjay Chakraborty*
- 17:10 A high-frequency, point-of-care ultrasound device to quantify myopia-induced microstructural changes in the anterior sclera  
*Jonathan Mamou*
- 17:20 Retinal On-Off pathway activity in myopes and non-myopes  
*Safal Khanal*

19:15 - 0:00 SOCIAL NETWORKING DINNER SS ROTTERDAM *Sponsored by HOYA*



TUESDAY 6<sup>th</sup>  
SEPTEMBER

7:50 - 8:35

**SPONSORED SESSION MENICON**



*Van der Vorm/Plate/Van Rijckevorsel @ Ruys Zaal*

**"Menicon Bloom"- from Remedial to Prospective treatment...  
an insight into improved patient care**

8:40 - 10:30

**OPTICAL INTERVENTIONS 1**

*Willem Burger Zaal*

*Moderators Padmaja Sankaridurg, David Berntsen*

8:40 Efficacy versus vision: breaking the nexus  
*Noel Brennan*

8:50 Myopia control efficacy of spectacle lenses with highly aspherical lenslets:  
3-year results  
*Björn Drob*

9:00 Impact of varying OZD of OrthoK designs on corneal topographical change and  
its implication for myopia-controlling efficacy  
*Maria Liu*

9:10 Effect of optical myopia-control interventions on peripheral vision  
*Petros Papadogiannis*

9:20 Slowing of myopia and eye growth reversal with wear of spectacles comprising  
highly aspherical lenslets  
*Padmaja Sankaridurg*

9:30 Montreal experience part 2: Corneal topographical changes induced by four  
orthokeratology lenses and their relationship with axial elongation.  
*Remy Marcotte-Collard*

9:40 Fast progressors are successfully treated with MiSight® 1 day myopia control  
contact lenses  
*Arthur Bradley*

9:50 Visual performance with novel spectacle lenses for myopia control  
*Deborah Laughton*

10:00 Biometric changes associated with active stimulation of the peripheral retina  
with myopically defocused images in humans  
*Ryo Kubota*

10:10 Changes in relative peripheral refraction in children who wore  
Defocus Incorporated Multiple Segments (DIMS) lenses  
*Han Yu Zhang*

10:20 Choroid Changes with the Initiation of Sphere and Multifocal  
Contact Lenses in the Bifocal Lenses In Nearsighted Kids (BLINK) Study  
*David Berntsen*

10:30 - 11:00

**BREAK**

*Jurjaanse Foyer, Van der Mandele Zaal @ Grote Zaal Foyer*

## CONTINUED

TUESDAY 6<sup>th</sup>  
SEPTEMBER

11:00 - 12:30	<b>MYOPIC COMPLICATIONS AND PUBLIC HEALTH</b> <i>Moderators Caroline Klaver, Weizhong Lan</i>	Willem Burger Zaal
11:00	High Myopia – the patient’s view <i>Gerlof du Bois</i>	
11:10	Design and baseline characteristics of a randomized clinical trial to investigate the effect of natural classrooms on myopia development among children in China <i>Weizhong Lan</i>	TRAVEL GRANT RECEIPT
11:20	Simulation of the Progression Trajectories of Myopia from Childhood to Older life in China <i>Jun Chen</i>	
11:30	An interim analysis of a telehealth tool to self-assess refractive error and visual acuity in a progressive myopia population <i>Janneau Claessens</i>	
11:40	The Impact of the First Peak of the COVID-19 Pandemic on Myopia treatment practice patterns among ophthalmologists - an IPOS global perspective <i>Eedy Mezer</i>	
11:50	Pathologic myopia in highly myopic patients with high axial anisomyopia <i>Jonathan Li</i>	
12:00	Differing Macula Deformation Comparing Healthy, High Myopia, High Myopia with Glaucoma, and Pathologic Myopia <i>Quan V. (Donny) Hoang</i>	
12:10	Risk Factors for Bilateral Macular Neovascularization in High Myopia <i>Monica Ravenstijn</i>	
12:20	Intravitreal Panitumumab for Prevention of Myopic Axial Elongation in Highly Myopic Adult Eyes with Myopic Macular Degeneration: Clinical Phase-1 Study <i>Jost Jonas</i>	
12:30 - 13:30	<b>BREAK</b> <i>Juriaanse Foyer, Van der Mandele Zaal &amp; Grote Zaal Foyer</i>	
12:40 - 14:10	<b>SPONSORED SESSION ESSILORLUXOTTICA</b> <i>Van der Weelde Zaal</i> <b>EssilorLuxottica</b> Essilor® Stellest™ lens - New benefits of myopia control spectacle lenses	
13:30 - 14:15	<b>SPONSORED SESSION JOHNSON &amp; JOHNSON</b> <i>Van der Vorm/Plate/Van Rijckevorsel &amp; Ruys Zaal</i> <b>Johnson &amp; Johnson VISION</b> A breakthrough soft contact lens for myopia control Join this exciting presentation to hear the innovative design concepts and latest clinical data behind Johnson & Johnson Vision’s breakthrough soft contact lens for myopia control presented by Noel Brennan, MScOptom, PhD.	
13:30 - 14:15	<b>POSTERS</b> OPTICAL INTERVENTIONS MYOPIC COMPLICATIONS GENETICS	Feestzaal
14:20 - 14:30	<b>AWARDS</b>	Willem Burger Zaal



## CONTINUED

TUESDAY 6<sup>th</sup>  
SEPTEMBER

14:30 - 15:30 **KEYNOTE SPEAKER** *Willem Burger Zaal*  
*Moderator Caroline Klaver*

Lessons learned about pandemics  
*Diederik Gommers*

15:30 - 16:30 **GENETICS** *Willem Burger Zaal*  
*Moderators Virginie Verhoeven, Pirro Hysi*

15:30 Assessing the contribution of genetic nurture to refractive error  
*Jeremy Guggenheim*

15:40 Exome sequencing study of 107 patients with Early-Onset High Myopia  
*Xunlun Sheng*

15:50 Whole exome sequencing of known eye genes reveals genetic causes for high myopia  
*Virginie Verhoeven*

16:00 Identification of genetic loci with differential effects on myopia and hyperopia using a case-case genome-wide association study  
*Chris Hammond*

16:10 Education interacts with genetic variants near GJD2, RBOX1, LAMA2, KCNQ5, TOX and LRRC4C to confer susceptibility to myopia  
*Rosie Clark*

16:20 The major heritable risk factors for myopia and the implications for its mechanism and prevention  
*Jay Neitz*

16:30 A comparison of the role of different retinal cell lines in refractive error and myopia  
*Pirro Hysi*

16:30 - 16:50 **BREAK** *Jurjaanse Foyer, Van der Mandele Zaal @ Grote Zaal Foyer*

16:50 - 17:30 **GENETICS** *Willem Burger Zaal*  
*Moderators Katie Williams, Calvin CP Pang*

16:50 Identification of non-coding regulatory elements for myopia by genome-wide scans  
*Milly Tedja*

17:00 Associations of gene polymorphisms and life style with anisometropia in children: the Hong Kong Children Eye Genetics Study  
*Calvin CP Pang*

17:10 Axial length distributions in patients with genetically confirmed inherited retinal diseases  
*Katie Williams*

17:20 Investigation of association between the myopia risk locus near GJD2 and electroretinogram responses  
*Xiaofan Jiang*

17:30 Rare variant analyses across multiethnic cohorts identify novel genes for refractive error  
*Annet Haarman*

TRAVEL  
GRANT  
RECIPIENT

17:30 - 18:30 **IMC BUSINESS MEETING** *Van Weelde Zaal*

WEDNESDAY 7<sup>th</sup>  
SEPTEMBER

8:50 - 10:00	<b>OPTICAL INTERVENTIONS 2</b> <i>Moderators Kate Gifford, Mark Bullimore</i>	<i>Willem Burger Zaal</i>
8:50	Ocular aberration changes in children wearing smaller back optic zone diameter orthokeratology lenses over two years <i>Biyue Guo</i>	
9:00	Axial length shortening after combined repeated low-level red-light therapy in poor responders of orthokeratology in myopic children <i>Mengting Yu</i>	
9:10	Optic Zone in Myopia Control with Ortho-K; Size Matters <i>Jaume Paune Fabre,</i>	
9:20	Retrospective review of orthokeratology versus peripheral defocus contact lenses <i>Martin Rickert</i>	
9:30	Development of Smart spectacles to monitor and modify myopia related health behavior in children <i>Ramamurthy Dharani</i>	TRAVEL GRANT RECIPIENT
9:40	Catenary Optics for Myopia Progression Intervention <i>K. Ashley Tuan</i>	
9:50	MiSight as a myopia control modality in young adults <i>Eilin Lundanes</i>	
10:00	Zone of clear single binocular vision in myopia controlling contact lenses <i>Kate Gifford</i>	
10:10-11:00	<b>PHARMALOGICAL INTERVENTIONS</b> <i>Moderators Samantha Lee, Jason Yam</i>	<i>Willem Burger Zaal</i>
10:20	Oral administration of caffeine metabolite 7-methylxanthine is associated with slowed childhood myopia progression <i>Klaus Trier</i>	
10:30	Effects of different Frequency Dose of 0.05% Atropine in Retarding the Progression of Myopia in Chinese Children <i>Yao Tang</i>	
10:40	Low-concentration atropine for the treatment of myopia in multi-racial Western Australian children (WA-ATOM study): first two years of treatment <i>Samantha Lee</i>	
10:50	Effect of high dose atropine for progressive myopia is age-dependent <i>Jan Roelof Polling</i>	
11:00 - 11:30	<b>BREAK</b>	<i>Jurjaanse Foyer, Van der Mandele Zaal @ Grote Zaal Foyer</i>
11:30 - 12:45	<b>IMI DEBATE</b>	<i>Willem Burger Zaal</i>
12:45 - 13:00	<b>CLOSING CEREMONY</b>	<i>Willem Burger Zaal</i>
13:00 - 13:30	<b>LUNCH</b>	<i>Jurjaanse Foyer, Van der Mandele Zaal @ Grote Zaal Foyer</i>