

The 15th International Conference on
**Low Vision Research
and Rehabilitation**
Florence (Italy), 8-12 September 2025



PRELIMINARY PROGRAMME

More info at

www.vision2025florence.com

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VISION2025FLORENCE





TUESDAY 9 SEPTEMBER 2025

08:30-09:45 | AUDITORIUM

LOW VISION ORGANIZATIONS AND SERVICES: INTERNATIONAL EXPERIENCES - MODELS OF VISION REHABILITATION CARE WORLDWIDE

- 08:30** Keynote Lecture: A view on VISION 2025
- 08:50** A view on successes and failures of eye health programmers in LMIC
- 09:00** Vision rehabilitation and eye care in low and middle-income countries (LMICs)
- 09:10** Comprehensive care for the visually impaired population in South America and development of tertiary service models in visual rehabilitation
- 09:20** Measuring vision impairment and blindness worldwide and the implications of the recent inclusion of effective refractive error coverage into the WHO Results Framework (GPW-14)
- 09:30** Systematic approach to low vision: a novel protocol to optimize low vision care in West Africa
- 09:40** Discussion

09:45-10:30 | EXHIBITION AREA BALLATOI POSTER SESSION - 1A

10:30-11:00 | AUDITORIUM

STITUTIONAL SESSION - PRESIDENTS' SPEECHES

- 10:30** President's speech
Ben Thompson (USA)

11:15-12:45 | AUDITORIUM

SOCIAL IMPACT OF VISION IMPAIRMENT AND REFRACTIVE ERROR

- 11:15** Reports on social and health issues
- 11:27** Vision care and improvement general healthcare among the elderly
- 11:39** Implementing translational research programmes for refractive error in LMIC
- 11:51** How to achieve SDGs for refractive error in LMIC
- 12:03** Implementation of cataract surgery models in rural China: a 10-year programme
- 12:15** Update on low vision rehabilitation
- 12:27** Discussion

11:15-12:45 | ROOM 4

OPTICAL PRESCRIPTIONS FOR LOW VISION

- 11:15** Mastering high power lenses and prism technology. Consideration on aberrations and lens centering
- 11:30** Progressive lenses in Low Vision: prismatic prescription and aniseikonia management - a comprehensive approach
- 11:45** Aniseikonic management through the effective choice of specific lens parameters: base curve, thickness and vertex distance
- 12:00** Selective filters for low vision: innovation, functionality, and clinical effectiveness
- 12:15** Optical vision aids impact on low vision patients' rehabilitation and quality of life
- 12:30** Discussion



TUESDAY 9 SEPTEMBER 2025

13:00-14:15 | ROOM 9 ELSRR MEETING

14:30-16:30 | AUDITORIUM LOW VISION AND THE BRAIN: FUNCTION, PLASTICITY AND RESTORATION - PART 1

- 14:30** Keynote Lecture: Neuromodulation and brain plasticity for vision restoration
- 14:50** Optic nerve regeneration: cell-intrinsic and -extrinsic regulation
- 15:01** Biomarkers and new therapeutics for neuroprotection in glaucoma
- 15:12** Rethinking the sensory deprived brain: how sensory deprivation improved our vision on brain function
- 15:23** Primary cortex remodeling in patients with central scotomas
- 15:34** Visual restoration and reconstruction based on brain computer interface
- 15:45** Orchestrated neuromodulation to enhance visual functions in healthy subjects and patients with hemianopia
- 15:56** Visual percepts evoked with intracortical microstimulation in 4 blind volunteers
- 16:07** Biofeedback techniques in low vision rehabilitation
- 16:18** Vision restoration and the role of microsaccades in glaucoma

14:30-16:30 | ROOM VERDE MISCELLANEA OR ABSTRACT TOPIC ABOUT - PART 1

14:30-16:30 | LIMONAIA EUROPEAN SOCIETY OF LOW VISION RESEARCH AND REHABILITATION (ESLRR) SESSION

- 14:30** Low vision services in The Netherlands
- 14:45** Low vision services in Spain
- 15:00** Low vision services in Italy
- 15:15** Low vision services in Germany
- 15:30** Low vision services in Portugal
- 15:45** Low vision services in Ireland
- 16:00** Low vision services in Hungary



TUESDAY 9 SEPTEMBER 2025

14:30-15:30 | ROOM ONICE

FROM FRUSTRATION TO SUCCESS: SUPPORT WITH HEALTHCARE PATIENT PORTALS FOR LOW VISION PATIENTS - PART 1

- 14:30** Usage of healthcare patient portals by visually-impaired patients
- 14:46** Accessibility and training to facilitate low vision patients' independent use of healthcare portal services
- 15:02** Overcoming barriers to effective healthcare app usage
- 15:18** Panel discussion

15:30-16:30 | ROOM ONICE

FROM DISSATISFACTION TO SUCCESS: TRANSITIONING FROM OVER-THE-COUNTER TO PRESCRIBED VISUAL AIDS - PART 2

- 15:30** Introduction to over-the-counter (OTC) aids
- 15:40** Upgrades when over-the-counter magnifiers are not helpful
- 15:50** From dissatisfaction with OTC visual aids to newly prescribed devices
- 16:00** Outcomes in a private practice: transitioning from high usage rates of OTC magnifiers by AMD patients
- 16:10** Summary of findings for pooled data across three practice sites
- 16:20** Panel discussion

14:30-16:30 | ROOM 4

SOUTH AMERICA LOW VISION SYMPOSIUM

- 14:30** Vision rehabilitation in retinopathy of prematurity
- 14:42** Vision impairment in childhood and early intervention
- 14:54** Optical aids for low vision. Main indications
- 15:06** Epidemiology of low vision in Latin America
- 15:18** Cortical visual impairment in children. Interdisciplinary interventions
- 15:30** Vision rehabilitation in inherited retinal diseases
- 15:42** Vision rehabilitation in glaucoma
- 15:54** Photobiomodulation in AMD
- 16:06** Microperimetry evaluation and biofeedback training in low vision
- 16:18** Panel discussion



TUESDAY 9 SEPTEMBER 2025

14:30-15:30 | ROOM 9

AMGO, UICI, IAPB ITALIA - NETWORKS AND PATHWAYS SUPPORTING THE FUNCTIONAL REHABILITATION OF BLIND AND VISUALLY IMPAIRED INDIVIDUALS

- 14:30 Introduction to the symposium
- 14:40 D.A.Re. Registry: an overview of the distribution and use of assistive devices in Italy today
- 14:48 The assistive devices library operator in the field of education and the use of assistive technologies in the elderly today
- 14:56 Tele-rehabilitation services
- 15:04 Beyond the vision: an integrated approach to neurovisual rehabilitation with family engagement
- 15:12 EBU Low Vision Working Group: what's new
- 15:20 Comparing realities in Europe
- 15:28 Panel discussion

15:30-16:30 | ROOM 9

PRISMA ROUND TABLE

16:30-17:15 | EXHIBITION AREA BALLATOI POSTER SESSION - 1B

17:15-18:45 | AUDITORIUM

LOW VISION AND THE BRAIN: FUNCTION, PLASTICITY AND RESTORATION - PART 2

- 17:15 Retinal imaging in brain disease
- 17:25 Visual sensory attenuation and fatigue
- 17:35 Parallel ventral and dorsal sub-routes for visual information processing in health and disease
- 17:45 Cerebral visual impairment and brain lesions
- 17:55 Visual impairment and development of multisensory skills and technology
- 18:05 How brain injury leads to visual deficits in children with unilateral cerebral palsy
- 18:15 Children with blinding ROP: Habilitation and rehabilitation services
- 18:25 Common neurodegeneration mechanisms shared by normal tension and ocular hypertension glaucoma models
- 18:35 Panel discussion



TUESDAY 9 SEPTEMBER 2025

17:15-18:45 | ROOM VERDE

OUTCOME MEASURES IN VISION RESTORATION CLINICAL TRIALS

- 17:15** Introduction: current challenges in low vision outcome measures
- 17:28** Patient reported outcomes
- 17:41** Mobility assessments in low vision clinical trials
- 17:54** Virtual reality: a novel way of measuring mobility
- 18:07** Microperimetry: a clinical endpoint in low vision trials
- 18:20** Visual function and functional vision assessments in vision restoration clinical trials
- 18:33** Panel discussion

17:15-18:45 | LIMONAIA

MOLECULAR GENETICS AND VISUAL REHABILITATION IN INHERITED RETINAL DISEASES (IRDs)

- 17:15** Molecular genetics and multi-omics approaches to unveil new mechanisms for translational research on IRDs
- 17:30** Post-developmental restoration of vision by rewiring photoreceptor synapses
- 17:45** Retinal aquaporins in health and disease: blue light and zinc as key regulators
- 18:00** Eye drops of small PEDF peptides promote photoreceptor survival in mouse and human models of retinal degeneration
- 18:15** Visual restoration by genetic brain machine interface
- 18:30** Albinism beyond genetics

17:15-18:45 | ROOM ONICE

MISCELLANEA OR ABSTRACT TOPIC ABOUT - PART 2



TUESDAY 9 SEPTEMBER 2025

17:15-18:45 | ROOM 4 **LOW VISION PRACTICES IN ASIA**

- 17:15** Technology in low vision
- 17:25** A bag of LV from The Philippines
- 17:35** The role of ophthalmologist in vision rehabilitation
- 17:45** Role of a social worker in LV rehabilitation - A Singapore experience
- 17:55** AI for LV
- 18:05** Establishing multi-disciplinary low vision service in Thailand: Lessons learned for successful model and challenges
- 18:15** Q&A

17:15-18:45 | ROOM 9 **DIAGNOSTIC, THERAPY AND VISUAL REHABILITATION IN GLAUCOMA AND OPTIC DISEASES**

- 17:15** Evidence based neuroprotection in glaucoma: randomized clinical trials with citioline oral solution and eye drops
- 17:30** Neuroprotection in real life: how can I treat glaucomatous patients?
- 17:45** Prognostic factors of glaucoma progression: a Cochrane review
- 18:00** Aqueous humor analysis in glaucoma diagnosis and prognosis
- 18:15** Title to be defined
- 18:30** Panel discussion



WEDNESDAY 10 SEPTEMBER 2025

08:30-09:45 | AUDITORIUM **PEDIATRIC VISUAL REHABILITATION**

- 08:30** How to establish a rehabilitation program - the North American experience
- 08:40** How to establish a rehabilitation program - the South American experience
- 08:50** How to establish a rehabilitation program - the Indian experience
- 09:00** How to establish a rehabilitation program - the African experience
- 09:10** How to establish a rehabilitation program - the South East Asia experience
- 09:20** How to establish a rehabilitation program - the European experience
- 09:30** Panel discussion

08:30-09:45 | ROOM VERDE **BRAIN INJURY REHABILITATION FOR HOMONIMOUS VISUAL FIELD DEFECTS**

- 08:30** Rehabilitation of visual field with prisms in hemianopia
- 08:45** When hemianopia overlaps with alterations in ocular motility, what rehabilitative
- 09:00** Visual scanning training for the treatment of hemianopia
- 09:15** Hemianopia and driving
- 09:30** Hemianopia in children: special features and rehabilitation

08:30-09:45 | LIMONAIA **MISCELLANEA OR ABSTRACT TOPIC ABOUT - PART 3**

08:30-09:45 | ROOM ONICE **ENHANCING VISUAL FUNCTION AND PROMOTING ACCESSIBILITY**

- 08:30** Enhancing functional vision of people with central vision loss through perceptual learning
- 08:43** Motion parallax enhances depth perception in macular degeneration
- 08:56** Accessibility for low vision: moving towards objective approaches
- 09:09** Audiom: an auditory map interface for blind and low vision travelers
- 09:22** Point and listen: making 3D maps and models accessible with natural interactions
- 09:35** Panel discussion



WEDNESDAY 10 SEPTEMBER 2025

08:30-09:45 | ROOM 4

LOW VISION ACADEMY ROUND TABLE - VISUAL IMPAIRMENT BEYOND MAGNIFICATION: BIOLOGICAL AND PHYSICAL VISUAL REHABILITATION

- 08:30 Parainflammation and VI
- 08:38 Mitochondria preservation in visual rehabilitation
- 08:46 Nutrition for visual performance
- 08:54 Cell and secretoma therapy in low vision
- 09:02 Visual rehabilitation without and with cell therapy: differences and evidence
- 09:10 Quantum biomodulation and structural visual
- 09:18 Aerobic activity and visual rehabilitation
- 09:26 Discussion

08:30-09:45 | ROOM 9

MENTAL HEALTH IN PEOPLE WITH VISION LOSS: CHALLENGES AND SOLUTIONS

- 08:30 Stepped-care to decrease depression and anxiety in young adults with vision loss
- 08:45 Mental health after sight recovery
- 09:00 Post-traumatic stress in older adults with vision loss
- 09:15 Humanising health care: Sharing patients' lived experience of vision impairment and depression with eye care students
- 09:30 Addressing severe mental health problems in the care for persons with vision loss: state of the art

09:45-10:30 | EXHIBITION AREA BALLATOI POSTER SESSION - 2A

10:30-12:45 | AUDITORIUM

BEYOND THE CURRENT TECHNOLOGICAL FRONTIERS AND VISUAL REHABILITATION

- 10:30 Keynote Lecture: The A.I. for prevention of the blindness and low vision
- 10:50 Retinal implant research and artificial vision
- 11:05 Overcoming technology barriers
- 11:20 New technology for visually impaired people
- 11:35 AI-based medical imaging for visual impairment
- 11:50 New technology for mobility
- 12:05 News in nystagmus treatment
- 12:20 Title to be defined
- 12:35 Panel discussion

13:00-14:15 | ROOM 9

ISLRR MEMBERSHIP ASSEMBLY



WEDNESDAY 10 SEPTEMBER 2025

14:30-16:45 | AUDITORIUM

THE PATH TO DEEPER VISUAL RE-MODULATION

- 14:30 Novel approaches to functional vision assessment
- 14:45 Outcome measures in gene therapy clinical trials
- 15:00 Rehabilitation of LV patients undergoing novel therapies
- 15:15 Why neuroretinal pathology progresses: oxidative, inflammatory and apoptotic processes
- 15:30 Retinal molecular biology: the key to containing the progression of neuroretinal diseases
- 15:45 Novel approaches to retinal repair: learning from zebrafish and the potential of mesenchymal exosomes
- 16:00 Cell therapy and neuroretinal diseases
- 16:15 Cell therapy without cells?
- 16:30 Panel discussion

16:45-17:30 | EXHIBITION AREA BALLATOI

POSTER SESSION - 2B

17:30-18:45 | AUDITORIUM

DRIVING WITH LOW VISION: INSIGHTS FROM DIVERSE RESEARCH METHODS

- 17:30 Advanced driver assistance systems for people with central vision impairment: usage, perceptions, and safety insights
- 17:40 Driving simulator testing for patients with visual field defects
- 17:50 Driving with homonymous visual field loss: simulated driving vs. naturalistic driving
- 18:00 Insights on vision and driving performance: closed vs. open road approaches
- 18:10 On-road assessment of low vision drivers in Europe
- 18:20 On-road testing or simulator-based testing for individuals with visual field loss?
- 18:30 Panel discussion

17:30-18:45 | ROOM VERDE

TECHNOLOGICAL APPROACHES TO VISION RESTORATION: BIONIC VISION, GENE THERAPY AND BEYOND

- 17:30 Introduction: IRD technologies 101
- 17:40 Vision prostheses
- 17:50 Gene therapy
- 18:00 Optogenetics
- 18:10 Small molecules
- 18:20 Sensory substitution devices
- 18:30 Panel discussion



WEDNESDAY 10 SEPTEMBER 2025

17:30-18:45 | LIMONAIA

VISION REHABILITATION FOR THE VISUALLY IMPAIRED: OVERCOMING CHALLENGES

- 17:30 The best tools to overcome challenging cases in childhood visual impairment, experience in 30 years
- 17:40 Issues in the rehabilitation of low vision persons to read
- 17:50 Low vision rehab for a patient with ocular syphilis and a diabetic patient under semaglutide treatment
- 18:00 Artificial intelligence for visually impaired
- 18:10 Eyes wide open: confronting low vision rehabilitation blindspots
- 18:20 Is it possible for vision restoration techniques to replace LVD?
- 18:30 Panel discussion

17:30-18:45 | ROOM ONICE

MISCELLANEA OR ABSTRACT TOPIC ABOUT - PART 4

17:30-18:45 | ROOM 4

TELEREHABILITATION FOR LOW VISION: READING OUTCOMES WITH MAGNIFICATION AIDS

- 17:30 Patient outcomes after magnifier training via telerehabilitation versus in-office support
- 17:45 Provider observations during telerehabilitation sessions for magnifier training
- 18:00 Patients' close acquaintances' observations of reading changes following magnifier training
- 18:15 Comparison of reading performance tests to patient reported outcomes of reading
- 18:30 Panel discussion

17:30-18:45 | ROOM 9

NEUROVISUAL REHABILITATION A - PREVALENCE, SCREENING AND ASSESSMENT OF NEUROVISUAL DISORDERS

- 17:30 CVI clinical practice guidelines and barriers and facilitation for implementation
- 17:44 Screening for neurovisual disorders in centres for neurorehabilitation
- 17:58 Assessing neurological vision impairment - perspective from a specialist optometry clinic residual neglect
- 18:12 Assessment of reading problems in homonymous hemianopia
- 18:26 Extensive assessment before rehabilitation in people with ms - what makes sense and what not?
- 18:40 Discussion



THURSDAY 11 SEPTEMBER 2025

08:30-10:00 | AUDITORIUM

MYOPIA: MECHANISMS AND STRATEGIES TO SLOW DOWN ITS PROGRESSION (DEFOCUSING, RED LIGHT AND NEW TECHNOLOGIES)

08:30 Introduction

08:35 Myopia progression from wearing first glasses to adult age: the DREAM Study

09:05 Interventions to slow the progression of myopia in children: a living network meta-analysis

09:35 Discussion

08:30-09:45 | ROOM VERDE

INTRAOCULAR AND EXTRAOCULAR SOLUTIONS FOR LOW VISION

08:30 Optics and trial results of the IMT and NG SI IMT devices

08:43 Real world experience with the NG SI IMT and SML devices

08:56 Patient selection for the Scharioth macular lens, does a contact simulator help?

09:09 Patient selection and predicting good outcomes for intraocular magnifying devices: sing IMT experience

09:22 Navigating the built environment - how can we help?

09:35 Panel discussion

08:30-09:45 | LIMONAIA

UNDERSTANDING BINOCULAR VISION OF PATIENTS WITH MACULAR DISEASE

08:30 Mechanisms and alterations of binocular vision in aging and ocular diseases

08:45 Binocular reading summation and inhibition in macular disease

09:00 Vision training for patients with binocular inhibition

09:15 Implications of scotoma overlap in the two eyes in macular degeneration

09:30 Binocularity considerations when evaluating the PRL in patients with central vision loss

08:30-09:45 | ROOM ONICE

FUNCTIONALITY AND USABILITY OF ASSISTIVE TECHNOLOGY FOR PEOPLE WITH VISION IMPAIRMENT

08:30 The functionality and usability of head-mounted displays (HMDs)

08:45 Functionality and usability of artificial intelligence (A.I.) apps and devices

09:00 Different models of augmented reality devices and how they are perceived by people with low vision

09:15 The usability and cost-effectiveness of a blended eHealth intervention to reduce fatigue in adults with vision impairment

09:30 Co-creation of assistive technology to increase usability and implementation within low vision rehab organizations



THURSDAY 11 SEPTEMBER 2025

08:30-09:45 | ROOM 4

SELECTED TOPICS IN CONGENITAL AND EARLY-ONSET DEAFBLINDNESS

- 08:30** An environmental scan: challenges and gaps in Canada's healthcare system regarding vision and hearing health
- 08:43** Validation of the life adjustment model as a psycho-educative group intervention
- 08:56** Management of delayed language development of children with cortical visual impairment in Hope City Foundation
- 09:09** Comparing education pathways for deafblind children in the Global South and Global North
- 09:22** Effective partners strategies for enhancing communicative and cognitive abilities of children with congenital deafblindness
- 09:35** Panel discussion

08:30-09:45 | ROOM 9

NEUROVISUAL REHABILITATION B - REHABILITATION OF VISUAL DISORDERS AFTER ACQUIRED BRAIN DISEASE

- 08:30** Rehabilitation for visual perceptual problems - putting the evidence into practice
- 08:43** Rehabilitation of visual disorders after acquired brain disease
- 08:56** Anti-extinction training: a new therapy for patients with residual neglect
- 09:09** Assessment and rehabilitation of visual disorders of acquired brain disease
- 09:22** The effects of neurovisual rehabilitation on daily activities and quality of life - results of ongoing research with PREMs and PROMs at Royal Dutch Visio
- 09:35** Discussion

09:45-10:30 | EXHIBITION AREA BALLATOI POSTER SESSION - 3A

10:30-12:45 | AUDITORIUM

USING YOUR VISUAL IMPAIRED EYE BETTER: STRATEGIES FOR CORRECT VISUAL REHABILITATION

- 10:30** Keynote Lecture: Clinical pearls for a successful low vision rehabilitation
- 10:50** A digital pill for visual rehabilitation
- 11:05** Harnessing neuroplasticity for vision rehabilitation
- 11:20** Training individuals with low vision to see better: from the eyes of a participant
- 11:35** Assistive devices for individuals with low vision (TBC)
- 11:50** How visually impaired patients make decision during navigating unfamiliar environment
- 12:05** Biofeedback training for individuals with low vision
- 12:20** Global low vision rehabilitation services in the post-COVID era
- 12:35** Discussion



THURSDAY 11 SEPTEMBER 2025

13:00-14:15 | ROOM 9 ISLRR MEMBERSHIP ASSEMBLY

14:30-16:45 | AUDITORIUM IMPROVING PERCEPTION: NEUROCOGNITIVE DYNAMICS OF VISUAL IMPAIRMENT AND RELATED NEUROMODULATION

- 14:30 Keynote Lecture: Reading disorders due to lesions along the visual pathway
- 14:50 Vision problems due to brain pathologies
- 15:02 Visual impairment due to stroke
- 15:14 Effects of visual impairment on neuroplastic changes in the visual cortex
- 15:26 Cortical acetylcholine release during visual experience
- 15:38 Body-related cognitive effects of low vision
- 15:50 Visual cortical activity in Charles Bonnet syndrome
- 16:02 Brain stimulation and reading or visual skills
- 16:14 Creative interventions for cerebral visual impairment
- 16:26 Overview of the latest trends in the literature for rehabilitation and therapies for visually impaired patients
- 16:38 Panel discussion

16:45-17:30 | EXHIBITION AREA BALLATOI POSTER SESSION - 3B

17:30-18:45 | AUDITORIUM AWARD AND MORE

- 17:30 Career award to Olga Overbury and Gordon Legge

17:30-18:45 | ROOM VERDE READING WITH LOW VISION

- 17:30 Reading with low vision: visual acuity, print size and magnification
- 17:42 Reading magnified newspapers versus newspapers magnification: a new method to address the local/global navigation problem on digital devices
- 17:54 Assessment of newly designed fonts for visual accessibility
- 18:06 Influence of the linguistic word features when reading with a central scotoma
- 18:18 The use of PRL in free reading
- 18:30 Discussion



THURSDAY 11 SEPTEMBER 2025

17:30-18:45 | LIMONAIA

MICROPERIMETRY FROM RESEARCH TO CLINICAL APPLICATIONS

- 17:30 MP pearls & pitfalls
- 17:43 The role of the preferred retinal locus (PRL) in retinal diseases
- 17:56 Longitudinal structure-function correlation
- 18:09 Rehabilitation pathway from microperimetry to orientation and mobility
- 18:19 Evolution of microperimetry, the past, present and future
- 18:32 Visual rehabilitation case reports from a real-world clinical practice

17:30-19:00 | ROOM 4

DEAFBLINDNESS ACROSS THE LIFE-SPAN

- 17:30 The development of the WHO ICF core sets for deafblindness for children and youth
- 17:46 This is not about football only, it is about the right to PARTICIPATION
- 18:02 Labour market participation of people with acquired deafblindness
- 18:18 The influence of varying degrees of dual sensory loss on daily life
- 18:34 An invisible disability - developing strategies for older Australians with dual sensory impairment
- 18:50 Panel discussion



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