KCXL Experts' Meeting 2025 — Final Programme

11–13 December 2025 · Humanitas Research Hospital & Humanitas University, Rozzano, Milan, Italy · Language: English
Organiser: **Light for Sight Foundation**, Grünaustrasse 6, 8953 Dietikon / Zurich, Switzerland · 21st Annual Meeting

Pre-congress — Thursday, 11 December 2025

SCIENTIFIC PROGRAMME · Humanitas Congress Center, Main Hall

TIME	TITLE	SPEAKER
08:55–09:00	Opening	
Resident programme — Co-chairs: Cosimo Mazzotta, Paolo Vinciguerra		
09:00–09:08	The role of epithelial mapping in differentiating keratoconus from pseudo-ectasia: two contrasting clinical cases	Laura Longo
09:08–09:16	Clinical use of multilayer perceptron network algorithm in very asymmetric ectasia: a case series	Maria Luisa Ferrato
09:16–09:24	Structural and cellular characterization of post-CXL super-flattened corneas: evidence of keratocyte depletion	Arianna Serraiotto
09:24–09:34	*Discussion*	*All*
09:34–09:42	Aseptic corneal melting following epi-off collagen cross-linking: advantages of a staged surgical approach	Marian Zimbru
09:42–09:50	The MASI index: a novel aberrometric parameter sensitive to high-order scattering in early Fuchs endothelial dystrophy	Andrea Nastasi
09:50–09:58	Evaluation of keratoconus progression through a multiparametric and multimodal analysis	Nicolò Valsecchi
09:58–10:08	*Discussion*	*All*
10:08–10:16	Post-refractive surgery corneal ectasia after LASIK and SMILE: management with iontophoresis CXL and SLAK technique	Cesare Persavalli
10:16–10:24	Comparison of SLAK and BSI in the treatment of keratoconus: visual, structural and statistical results	Sarah Donatelli
10:24–10:30	*Discussion*	*All*
10:30–10:45 · Coffee break		
Hands-on — Chair: Riccardo Vinciguerra		
10:45–12:45	Hands-on clinical cases with live corneal tomography devices. OCULUS platform (Pentacam, Pentacam AXL, Pentacam OCT) / P. Vinciguerra · CSO platform MS-39 / R. Vinciguerra · Heidelberg platform / R. Herber	P. Vinciguerra, R. Vinciguerra, R. Herber
12:30–13:30 · Lunch		

Sponsored by industry — not part of the CME programme.

COMPANY COURSES · Main Hall

TIME	TITLE	SPEAKER
13:00–14:00	EMAGine & CSO Italia — ELZA-PACE skills transfer course	Farhad Hafezi, Emilio Torres
14:05–15:05	SCHWIND eye-tech solutions — TheraCare skills transfer course	Thomas Magnago, Shady Awwad, Farhad Hafezi
15:10–16:10	OCULUS — KC diagnostics skills transfer course	Michael Belin, Riccardo Vinciguerra, Pooja Khamar
16:15–17:15	Mediphacos — Irregular cornea remodelling with ICRS implantation	Marcelo Soares (Brazil), Olivier Prisant (France)
17:20–18:20	Intelon Optics — Brillouin spectroscopy: a novel tool for assessing ocular tissue biomechanics and its clinical utility	Dimitri Chernyak
18:30 · Apéro		

CAIRS WET-LABS · Humanitas University, Building A, 1st floor, Room S6 · Faculty: Olivier Prisant, Shady Awwad

TIME	TITLE	SPEAKER
12:30–14:00	CAIRS wet-lab 1 (8 participants)	
14:30–16:00	CAIRS wet-lab 2 (8 participants)	
16:15–17:45	CAIRS wet-lab 3 (8 participants)	
17:45–19:15	CAIRS wet-lab 4 (8 participants)	

Day 1 — Friday, 12 December 2025

MAIN AUDITORIUM

TIME	TITLE	SPEAKER
08:30 · Registration		
2nd Global Consensus on Keratoconus — Chairs: Farhad Hafezi, José Álvaro Gomes		
09:00	Concept of the Delphi panel	José Álvaro Gomes (Brazil)
09:15	Results part 1 — definition, diagnosis, staging	Cosimo Mazzotta (Italy)
09:30	Results part 2 — CXL for progression	Emilio Torres (Switzerland)
09:45	Results part 3 — invasive visual rehabilitation	Shady Awwad (Lebanon)
10:00	Results part 4 — keratoplasty approaches	Boris Knyazer (Israel)
10:15	Results part 5 — elective refractive surgery	Riccardo Vinciguerra (Italy)
10:30	Results part 6 — cataract surgery in keratoconus	Jorge Alió (Spain)
10:45–11:15 · Coffee break		
Keratoconus detection, part 1 — current approaches		
11:15	Scheimpflug technology	Michael Belin (USA)
11:30	OCT technology	Shady Awwad (Lebanon)
11:45	*Discussion*	*All*
12:00	Corneal topography and tomography	J. Bradley Randleman (USA)
12:15	Indices to detect keratoconus	Riccardo Vinciguerra (Italy)
12:30	*Discussion*	*All*
12:45–13:45 · Lunch break		
Keratoconus detection, part 2 — the near future		
13:45	OCT elastography	Emilio Torres (Switzerland)
14:00	Morphovolumetric classification of keratoconus	Jorge Alió (Spain)
14:15	*Discussion*	*All*
14:30	Brillouin microscopy, part 1	J. Bradley Randleman (USA)
14:45	Brillouin microscopy, part 2	Riccardo Vinciguerra (Italy)
15:00	*Discussion*	*All*
KCXL Recognition Award		
15:15–15:45	Awards	—
15:45–16:15 · Coffee break		
CXL for ectasia, part 1 — current approaches		
16:15	High-fluence epi-off protocols	Léonard Kollros (Switzerland)
16:30	ELZA-PACE	Farhad Hafezi (Switzerland)
16:45	*Discussion*	*All*
17:00	Epi-on CXL part 1 — Epioxa	Anders Behndig (Sweden)
17:15	Epi-on CXL part 2 — the ELZA approach	Emilio Torres (Switzerland)
17:30	*Discussion*	*All*
CXL for ectasia, part 2 — the near future		
17:45	Late progressive thinning after CXL	Paolo Vinciguerra (Italy)
18:00	Refractive index after CXL	Cynthia Roberts (USA)
18:15	*Discussion*	*All*
18:30	The future of the sub400 protocol	Farhad Hafezi (Switzerland)
18:45	Gene therapy for keratoconus	Pooja Khamar (India)
19:00	*Discussion*	*All*

ROOM 1 · parallel track

TIME	TITLE	SPEAKER
Free papers session 1 — diagnostics		

09:00	Distribution of corneal densitometry in different grades of keratoconus	Engy Mostafa (Egypt)
09:05	Detecting incipient keratoconus on MS-39 maps with graph descriptors beyond conventional metrics	Francisco Javier Abellán Martínez (Spain)
09:10	Precision analysis and inter-device agreement of a hybrid OCT–Placido aberrometer for corneal higher-order aberrations in graded keratoconus	Jinhai Huang (China)
09:15	Automated image processing of annular dark shadow for keratoconus detection	Arige Gideon Abousaid (Israel)
09:20	*Discussion*	*All*
Devices — basics		
09:30	Basics of corneal topography	Stephen Klyce (USA)
09:45	Basics of corneal tomography	Michael Belin (USA)
10:00	*Q&A*	*All*
10:15	Basics of AS-OCT with Placido	Francesco Versaci (Italy)
10:30	Basics of corneal biomechanics	Riccardo Vinciguerra (Italy)
10:45	*Q&A*	*All*
11:00–11:15 · Coffee break		
Devices — clinical application		
11:15	Reading corneal topography and tomography	J. Bradley Randleman (USA)
11:30	Reading CorVis results	Riccardo Vinciguerra (Italy)
11:45	*Q&A*	*All*
12:00	Reading progression displays, part 1	Michael Belin (USA)
12:15	Reading progression displays, part 2	Francesco Versaci (Italy)
12:30	*Q&A*	*All*
12:45–13:45 · Lunch break		
CXL for ectasia — for newcomers		
13:45	The cross-linking reaction	Mark Hillen (Switzerland)
14:00	The role of oxygen	Farhad Hafezi (Switzerland)
14:15	*Q&A*	*All*
14:30	Epi-off protocols explained	Cosimo Mazzotta (Italy)
14:45	Epi-on protocols explained	Emilio Torres (Switzerland)
15:00	*Q&A*	*All*
15:15–15:45 · KCXL Recognition Award (main auditorium) · Coffee break		
CXL for ectasia — for newcomers, continued		
15:45	Complications and surprises explained, part 1	Paolo Vinciguerra (Italy)
16:00	Complications and surprises explained, part 2	Namrata Sharma (India)
16:15	Customized CXL explained	Emilio Torres (Switzerland)
16:30	*Q&A*	*All*

Day 2 — Saturday, 13 December 2025

MAIN AUDITORIUM

TIME	TITLE	SPEAKER
08:30 · Registration		
PACK-CXL		
08:30	A case of multi-drug resistant infectious necrotizing scleritis treated with Rose Bengal photodynamic therapy	Jaime Martinez (USA)
08:45	Go fast and go strong: the ideal PACK-CXL protocol for infectious keratitis	Farhad Hafezi (Switzerland)
09:00	*Discussion*	*All*
K-MAP — global keratoconus prevalence		
09:15	Update and first results	Nikki Hafezi (Switzerland), Emilio Torres (Switzerland)
09:45–10:15 · Coffee break		
Invasive visual rehabilitation 1		
10:15	Wavefront-guided surface ablation	Jorge Alió del Barrio (Spain)
10:30	*Discussion*	*All*
10:45	Pinhole IOL	Emilio Pedrotti (Italy)
11:00	*Discussion*	*All*
11:15	ELZA-PACE: customized cross-linking	Farhad Hafezi (Switzerland)
11:30	*Discussion*	*All*
11:45	ICRS: results and long-term safety	Luis Fernandez-Vega (Spain)
12:00	*Discussion*	*All*
12:15–13:15 · Lunch break		
Sterile corneal melting		
13:15	New insights into CXL resistance to stromal melting	Farhad Hafezi (Switzerland)
13:30	Effect of pre-operative CXL on corneal melting and corneal neovascularisation	Gerald Schmidinger (Austria)
13:45	Ex vivo CXL for high-risk corneal grafts	Joseph Ciolino (USA)
14:00	*Discussion*	*All*
Invasive visual rehabilitation 2		
14:15	CAIRS — the journey	Shady Awwad (Lebanon)
14:45	Commercially pre-prepared segments, part 1: Keranatural	Aylin Kılıç (Turkey)
15:00	Commercially pre-prepared segments, part 2: Optigraft	Art Kurz (USA)
15:15	ECO-CAIRS using ultra-high-fluence CXL	Farhad Hafezi (Switzerland)
15:30	*Discussion*	*All*
15:45–16:15 · Coffee break · 16:15 Group photo		
Invasive visual rehabilitation 3		
16:30	Lenticule augmentation — SLAK	Jorge Alió del Barrio (Spain)
16:45	Meniscus-shaped stromal lenticule addition keratoplasty (MS-SLAK)	Emilio Pedrotti (Italy)
17:00	*Discussion*	*All*
17:15	Bowman layer transplantation: evolving technique and results	Lamis Baydoun, Bader Khayat
17:30	Corneal inlays: lessons learned and future directions	Marguerite McDonald (USA)
17:45	*Discussion*	*All*

ROOM 1 · parallel track

TIME	TITLE	SPEAKER
Free papers session 2 — translational / early pilot		
08:30	Application of raw tomography data to individualize patient progression analysis	Rishabh Singh (USA)
08:35	Precision microneedle-enhanced riboflavin delivery for customized corneal cross-linking in keratoconus therapy	Jinhai Huang (China)

08:40	Establishing a chicken model of corneal cross-linking: a pilot study with UVA/riboflavin and transglutaminase	Byung Soo Kang (Hong Kong)
08:45	*Discussion*	*All*
08:50	Efficacy and safety of KeraVio using violet light-emitting glasses and cyanocobalamin drops for progressive keratoconus: a pilot study	Hidenaga Kobashi (Japan)
08:55	Experimental studies to enhance the efficacy of corneal cross-linking	Yu Liu (China)
09:00	Controlled immunomodulation preserves collagen integrity and promotes corneal stability in keratoconus	Maneesha Mohan (India)
09:05	Graphitic carbon nitride quantum dots for enhanced corneal cross-linking	Jinhai Huang (China)
09:10	*Discussion*	*All*
09:15–09:45 · Coffee break		
Free papers session 3 — keratoconus		
09:45	Prospective insights into risk factors, disease severity and management outcomes in a large keratoconus cohort from India	Namrata Sharma (India)
09:50	Motion tracking Brillouin microscopy vs multimodal corneal imaging for keratoconus suspect identification	J. Bradley Randleman (USA)
09:55	Focal biomechanical inhomogeneity in moderate to severe keratoconus: insights from Brillouin microscopy	Jiwon Jeong (Republic of Korea)
10:00	*Discussion*	*All*
10:05	Early diagnosis of keratoconus: a review and systematic analysis	Hany Eldefrawy (UK)
10:10	Quantitative corneal epithelial wavefront signatures for precise detection of keratoconus and forme fruste keratoconus	Jinhai Huang (China)
10:15	Keratoconus vs pseudokeratoconus in Fuchs endothelial corneal dystrophy: diagnostic and therapeutic challenges	Mostafa Aghi (Germany)
10:20	*Discussion*	*All*
10:25	Case report: thick cornea with keratoconus features — is it real?	Engy Mostafa (Egypt)
10:30	Eyelid cosmetics, ocular surface inflammation and keratoconus: a prospective study with a randomized lid-hygiene sub-trial	Dishitha Rathod (India)
10:35	Management of chronic corneal hydrops with double lenticule transplantation	Faruk Semiz (Albania)
10:40	*Discussion*	*All*
10:45	Five-year follow-up of telocyte cells in fresh lenticule transplantation for advanced keratoconus	Faruk Semiz (Albania)
10:50	Mind the age gap when assessing keratoconus progression with Scheimpflug imaging	Bart Van Dooren (Netherlands)
10:55	Complications of intrastromal corneal ring segments in keratoconus: case series and literature context	Katarzyna Walasz (Poland)
11:00	Biomechanical and structural implications of lenticule insertion procedures	Abby Wilson (UK)
11:05	*Discussion*	*All*
Free papers session 4 — cross-linking		
11:15	Corneal cross-linking in thin corneas following the sub400 protocol	Teodor Stefanache (UK)
11:20	SMILE plus custom fast cross-linking vs SMILE alone: 12-month outcomes in myopic eyes	Mario Troisi (Italy)
11:25	Five-year corneal densitometry outcomes after cross-linking in paediatric keratoconus	Hüseyin Buğra Türk (Türkiye)
11:30	*Discussion*	*All*
11:35	Comparative results and side effects of epi-off versus epi-on iontophoresis accelerated cross-linking at 10-year follow-up	Elena Albè (Italy)
11:40	Corneal cross-linking in the treatment of keratoconus in children — a retrospective analysis	Magdalena Kijonka (Poland)
11:45	Corneal biomechanical changes after 1 year of epi-off accelerated corneal collagen cross-linking in progressive keratoconus	Michele Lanza (Italy)
11:50	*Discussion*	*All*
11:55	Outcomes of localized corneal collagen cross-linking with a conventional device in progressive keratoconus	Irit Barequet (Israel)
12:00	Evaluation of epi-off accelerated corneal collagen cross-linking in progressive keratoconus: 1-year follow-up	Michele Lanza (Italy)
12:05	Scleral lens reservoir-assisted corneal swelling in thin keratoconic corneas: efficacy of riboflavin soaking for CXL	Moatez Billah Mekki (Algeria)
12:10	*Discussion*	*All*
12:15–13:15 · Lunch break		

Step-by-step course — advanced		
13:15	Customized PRK for keratoconus	Paolo Vinciguerra (Italy), Emilio Torres (Switzerland)
13:45	CAIRS	Aylin Kılıç (Turkey), Shady Awwad (Lebanon)
14:15	ICRS	Olivier Prisant (France), Luis Fernandez-Vega (Spain)
Low-compliance keratoconus patients		
14:45	Detection of keratoconus in patients with Down syndrome	Shaknoza Azizova (Uzbekistan)
15:00	CXL in patients with Down syndrome	Nikki Hafezi (Switzerland)
How to treat corneal opacities		
15:15	Losartan	Rohit Shetty (India), Pooja Khamar (India)
15:30	Apical scar	Paolo Vinciguerra (Italy)
15:45	PTK / PRK	Paolo Vinciguerra (Italy)
16:00	*Q&A*	*All*
Cataract surgery and phakic lenses in keratoconus		
16:30	IOL power calculations: choosing the right formula	Emilio Torres (Switzerland)
16:45	Tips and pearls in phacoemulsification in keratoconus	Jorge Alió del Barrio (Spain)
17:00	Customized phakic IOLs in keratoconus	Jorge Alió (Spain)
17:30	Phakic IOLs in keratoconus: optimizing outcomes	Shady Awwad (Lebanon)
17:45	Sizing in phakic IOLs	Andrea Russo (Italy)

SCIENTIFIC COMMITTEE

Prof. Shady Awwad (Lebanon) · Prof. Farhad Hafezi (Switzerland) · Prof. J. Bradley Randleman (USA) · Prof. Paolo Vinciguerra (Italy)

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