10th International Congress of Corneal Cross-Linking

Communicating and understanding cross-linking technology

December 5 + 6, 2014 | Zurich, Switzerland

(http://www.cxl-congress.com/2014/)

Scientific Program

Last update: November 25, 2014

December 5, 2014 - Instructional Presentations	December 6, 2014 - Scientific Program	Posters

08:20 – 08:22   Introductory remarks and welcome

08:22 – 10:00	**Basic research**	**Chair: George Kymionis, Michael Mrochen**
08:22	Limbal stem cells and peripheral irradiation during CXL	*Johnny Moore (England)**
08:37	Computational Modeling of Corneal Ectasia & Focal CXL patterns	*BJ Dupps (USA)**
08:52	Biomechanical Changes in Ex-Vivo Human and Porcine Corneas in Response to Treatment with Human Decorin Core Protein	*Cynthia J. Roberts (USA)*
08:59	Establishing UV Collagen Cross-Linking in a Mouse Model: Biomechanical and Morphological Evaluation	*Sabine Kling (Switzerland)*
09:06	Riboflavin distribution after intrastromal application over time by means of a stromal channel system in porcine corneae	*Isaak Fischinger (Germany)*
09:13	Cosmetic preservatives as therapeutic corneoscleral tissue cross-linking agents	*David Paik (USA)**
09:28	Simulating clinical trials in corneal cross-linking	*Harald P. Studer (Switzerland)*
09:43	Panel discussion	

10:00 – 10:30	**Coffee break**	

10:30 – 12:00	**Translational Research & Pilot Studies**	**Chair: Theo Seiler, Mukesh Joshi**
10:30	High-resolution biomechanical characterization of keratoconus cornea ex vivo with Brillouin microscopy	*Giuliano Scarcelli (USA)**
10:45	Determing stromal riboflavin concentrations for epi-off and epi-on formulations using UPLC	*Arthur Hammer (Switzerland)*
10:52	Can Biomarkers predict the treatment outcomes of Crosslinking in Keratoconus?	*Natasha Pahuja (India)*
10:59	Two-photon Fluorescence Microscopy of Corneal Riboflavin Penetration with two Riboflavin Solutions	*Gerald Schmidinger (Austria)*
11:06	How Safe are Limbal Stem Cells to Accelerated and Conventional Crosslinking?	*Chetna Sharma (India)*
11:13	Biomechanical changes after repeated CXL on human corneas assessed in vitro using scanning acoustic microscopy	*I. Beshtawi (Palestine)**
11:28	No additional biomechanical effect of CXL after repeated in vivo treatment in mice	*David Tabibian (Switzerland)*
11:35	DXL - Donor Cross-linking for Keratoplasty	*Hatch Mukherjee (England)**
11:42	Panel discussion	

12:00 – 13:15	**Lunch**	

13:15 – 15:20	**CXL and CXL Plus (Combined Procedures)**	**Chair: Rohit Shetty**
13:15	The Effect of in-vitro and in-vivo Collagen Cross-linking procedure on the material of	*Haris Sideroudi (Greece)*

	Intracorneal Ring Segments	
13:22	Corneal Collagen Crosslinking with ionthophoresis imbibition and accelerated UVA irradiation: clinical and morphological results	*Leonardo Mastropasqua (Italy)*
13:29	Comparison of ORA results from cross-linked keratoconus(KC) cases and controls from 1) family members of KC cases and 2) other normal controls	*Jenny Deva (Malaysia)*
13:36	Risk factors for bacterial keratitis following corneal cross-linking	*Vito Romano (UK)*
13:43	Transepithelial corneal crosslinking for treatment of progressive keratoconus: a randomized controlled trial – one year results	*Nienke Soeters (NL)*
13:50	Effects and adverse events after CXL for keratoconus are independent of age: a 1-year follow-up study	*Philipp Baenninger (Switzerland)*
13:57	Discussion (5')	
14:02	First Results from KXL-IITM Topography-guided Crosslinking Treatment for Keratoconus (7')	*Anders Behndig (Sweden)*
14:09	Customized corneal crosslinking for halting the progression of keratectasia (7')	*Theo G. Seiler (Germany)*
14:16	Discussion (5')	
14:21	Early postoperative complications of corneal crosslinking (CXL) with 18 mW/cm² energy fluency	*Daniel Zapp (Germany)*
14:28	Corneal collagen crosslinking for extreme keratoconus with ultra-thin corneas: three years follow-up	*Denise Wajnsztajn (Israel)*
14:35	Treatment protocol of trans-epi CXL, clinical results. Combination with CK.	*Roberto Pinelli (Switzerland)*
14:50	PTK epithelial (and Bowman's) removal for CXL	*George Kymionis (Greece)**
15:05	Panel discussion G. Kymionis, BJ Dupps, T. Seiler	
15:20 – 16:00	**Coffee break**	
16:00 – 17:00	**PACK-CXL**	**Chair: Dalia Said, Jes Mortensen**
16:00	Optimizing PACK-CXL for infectious keratitis	*Farhad Hafezi (Switzerland)*
16:15	Overview on published clinical data	*Jes Mortensen (Sweden)**
16:30	PACK-CXL in early versus advanced ulcers	*Dalia Said (UK)*
16:45	Corneal collagen cross-linking (pack-cxl) after impregnation of Riboflavin by iontophoresis for the treatment of melting keratitis in 10 cats	*Frank Famose (France)*
16:52	Paradox of cross linking and infectious keratitis: to do or no to do?	*Chetna Sharma (India)*
17:00 – 18:00	**Redefining the parameters**	**Chair: Theo Seiler**
17:00	Overview on the "Delphi Panel", global consensus on KC and ectasia	*Farhad Hafezi (Switzerland)*
17:15	A validation of a multivariate analysis and statistical model for predicting visual acuity and keratometry one year after cross-linking for keratoconus	*Daniel Godefrooij (NL)*
17:22	Reduced precision of the Pentacam HR ® in eyes with mild to moderate keratoconus	*François Majo (Switzerland)*
17:29	Parameters	*Farhad Hafezi (Switzerland)*
17:36	A tribute to Rudi Peschke	*Jenny Deva (Malaysia)*
17:46	Poster Award sponsored by Peschke Trade	
17:51	The Theo Seiler Young Researcher Award	*Scientific Committee*
18:00	Final remarks	*Michael Mrochen & Farhad Hafezi*

* invited