Scientific Program

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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:22</td>
<td>Limbal stem cells and peripheral irradiation during CXL</td>
<td>Johnny Moore (England)*</td>
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<td>08:37</td>
<td>Computational Modeling of Corneal Ectasia &amp; Focal CXL patterns</td>
<td>BJ Dupps (USA)*</td>
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<td>08:52</td>
<td>Biomechanical Changes in Ex-Vivo Human and Porcine Corneas in Response to Treatment with Human Decorin Core Protein</td>
<td>Cynthia J. Roberts (USA)</td>
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<td>08:59</td>
<td>Establishing UV Collagen Cross-Linking in a Mouse Model: Biomechanical and Morphological Evaluation</td>
<td>Sabine Kling (Switzerland)</td>
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<td>09:06</td>
<td>Riboflavin distribution after intrastromal application over time by means of a stromal channel system in porcine cornea</td>
<td>Issak Fischinger (Germany)</td>
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<td>09:13</td>
<td>Cosmetic preservatives as therapeutic corneoscleral tissue cross-linking agents</td>
<td>David Paik (USA)*</td>
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<td>09:28</td>
<td>Simulating clinical trials in corneal cross-linking</td>
<td>Harald P. Studer (Switzerland)</td>
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<td>09:43</td>
<td>Panel discussion</td>
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**10:00 – 10:30 Coffee break**

**10:30 – 12:00 Translational Research & Pilot Studies**

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

**13:15 – 15:20 CXL and CXL Plus (Combined Procedures)**

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<td>13:15</td>
<td>The Effect of in-vitro and in-vivo Collagen Cross-linking procedure on the material of</td>
<td>Haris Sideroudi (Greece)</td>
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**15:20 – 15:40 Panel discussion**
Intracorneal Ring Segments

13:22 Corneal Collagen Crosslinking with iontophoresis 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 Coffee break

16:00 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 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