

## 2017 Spring KPro Study Group Meeting

### *Toward an Artificial Cornea*

Hosted by the Wilmer Eye Institute  
Johns Hopkins University

Monday, May 8, 2017  
4:00 pm – 7:30 pm

<u>Location</u> Wilmer Smith Building Atrium 400 N Broadway, Baltimore, MD 21231	<u>Parking</u> 1800 Orleans Street Parking Garage
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### Program

4:00pm **Opening Remarks** - Esen K Akpek, Jose de la Cruz, Jean Marie Parel

4:10 **Session 1: Materials, Biocompatibility, Bio-Integration: Bench to Bedside**

*Moderators:* Gerd Geerling, University Hospital Dusseldorf, Dusseldorf, Germany &  
Victor L Perez, Bascom Palmer Eye Institute, Miami, FL

4:10 **Jean-Marie Parel, Bascom Palmer Eye Institute, Miami, FL**

*History Does Not Need To Repeat Itself: What Have We Learned So Far*

4:20 **Gopalan Balaji, W. L. Gore & Associates Inc, Newark, DE**

*Back To The Future: ePTFE For Artificial Cornea & Why It Is Suitable for KPro*

4:30 **Jennifer Elisseff, Wilmer Eye Institute, Baltimore, MD**

*Implant/Mesoplant/Explant Within The Context Of Artificial Cornea*

4:40 **Darlene Miller, Bascom Palmer Eye Institute, Miami, FL**

*Biofilm Formation in Current Keratoprotheses: The microbe point of view*

4:50 **James Chodosh, Massachusetts Eye and Ear, Boston, MA**

*Design Evolution in Boston KPro Type I and II*

5:00 **Charles Yu, University of Illinois Eye and Ear Infirmary, Chicago, IL**

*Incorporating 3D Printing in the Design of a New Prosthesis*

5:10 **Discussion**

5:20 **Free Paper Session**

*Moderators:* Mark Rosenblatt, University of Illinois, Chicago, IL  
Michael Belin, The University of Arizona, Tucson, AZ

5:20 **Miguel Gonzalez et al, Massachusetts Eye and Ear, Boston, MA**

*One step closer to a more practical artificial cornea*

5:26 **Heather Durkee et al, Bascom Palmer Eye Institute, Miami, FL**

*OCT and Confocal microscopy to examine explanted KPros*

5:32 **Eleftherios Paschalis et al, Massachusetts Eye and Ear, Boston, MA**

*KPro surgery and chemical burns can cause retina and optic nerve damage via inflammation. Treatment with infliximab is protective*

**5:38 Jay Wang et al, Massachusetts Eye and Ear, Boston, MA**  
*Outcomes of Boston keratoprosthesis type 1 reimplantation – multicenter study results*

**5:42 Jean-Marie Parel et al, Bascom Palmer Eye Institute, Miami, FL**  
*MiTi KPro: A synthesis of what BPEI learned from OOKP and Boston KPro*

**5: 50 Discussion**

**6:00 Session 2: The Good, The Bad and The Ugly: Current KPros**

**Moderators:** Sadeer Hannush, Wills Eye Hospital, Philadelphia, PA &  
James Chodosh, Massachusetts Eye and Ear, Boston, MA

**6:00 Sumayya Ahmad, Icahn School of Medicine at Mt. Sinai, New York NY**  
*Artificial Corneal Transplantation Versus Donor Corneal Transplantation: Is KPro Being Underutilized?*

**6:10 Robert Morris, Retina Specialists of Alabama, Birmingham, AL**  
*Retinal Detachment Prophylaxis in KPro Eyes*

**6:20 Joseph Ciolino, Massachusetts Eye and Ear, Boston, MA**  
*Crosslinking of Donor Cornea in Boston KPro Type I Clinical Trial*

**6:30 Sayan Basu, Tej Kohli Cornea Institute, LV Prasad Eye Institute, Hyderabad, India**  
*Auro Kpro an Update on Outcomes and Progress*

**6:40 Victor Perez et al, Bascom Palmer Eye Institute, Miami, FL**  
*Pan KPro Initiative. First Regional Data Base*

**6:50 Andrea Arteaga et al, University of Illinois, Chicago, IL**  
*P3KPRO Study. "The True Story of the Naïve KPro"*

**7:00 Discussion**

**7:10 Steering Committee Resolutions, Jean-Marie Parel**

**7:15 Closing Remarks - Esen Akpek, Jean Marie Parel & Jose de la Cruz**

**7:30-9:00 Dinner for All Attendees**

**Sponsored by the Wilmer Cornea, Cataract, and External Disease Division**

**Not affiliated with the ARVO 2017 Annual Meeting**