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The Course "**Pathology, Genetics, Diagnostics and Treatment of Eye Diseases**"

**June 19-20, 2013, in Tartu, Estonia, Dorpat Conference Centre**

Speakers:

**Michael Dean, Ph.D.**

Senior Investigator  
Head, Human Genetics Section  
Laboratory of Experimental Immunology  
National Cancer Institute, National Institutes of Health  
Frederick, MD 21702-1201

**Gregory S. Hageman, Ph.D.**

John A. Moran Presidential Professor  
Executive Director, Moran Center for Translational Medicine  
Department of Ophthalmology & Visual Sciences  
John A. Moran Eye Center  
University of Utah, Salt Lake City, UT 84132

**Rando Allikmets, Ph.D.**

William and Donna Acquavella Professor  
Departments of Ophthalmology and Pathology & Cell Biology  
Research Director  
Harkness Eye Institute  
Columbia University  
New York, NY 10032

## **Wednesday, June 19, 2013**

### **DAY 1**

- 10:00 - 10:10 Welcome and Introduction to the Course **Allikmets**
- 10:10 - 11:00 Human Genetics and Mendelian Disease: Examples from Ophthalmology **Dean**
- 11:00 - 12:00 Genetics of AMD for Scientists and Medical Doctor **Allikmets**
- 12:00 - 13:00 Pathology of Age-Related Macular Degeneration, Drusen and the Complement System  
**Hageman**
- 13:00 - 14:00 Lunch
- 14:00 - 15:00 Complex Human Disease and Next-Generation Sequencing Technology **Dean**
- 15:00 - 16:00 Stargardt Disease - Genetics, Diagnostics and Therapy **Allikmets**
- 16:00 - 16:30 Coffee break
- 16:30 - 17:30 Round-table Discussion on Diagnostics of Mendelian and Complex Diseases

**Asper Biotech, all speakers**

## **Thursday, June 20, 2013**

### **DAY 2**

- 9:00 - 10:00 Refined understanding of AMD Disease Mechanisms: Multiple Phenotypes and Diseases  
**Hageman**
- 10:00 - 11:00 Stem Cells in Human Disease and Therapy
- a. Introduction to Stem Cells and Cancer Stem Cells **Dean**
  - b. Stem Cells for Therapy of Retinal Disease **Allikmets**
- 11:00 - 11:30 Coffee break
- 11:30 - 12:30 AMD Therapy **Hageman**
- 12:30 - 13:30 Lunch
- 13:30 - 15:00 Round-table Discussion "Meet the faculty" – all questions to **Dean, Hageman and Allikmets**