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10TH OCULAR SURFACE AND TEAR WORKSHOP

MAY 10~11, 2007

OCULAR

INFLAMMATION

FORT LAUDERDALE GRANDE HOTEL & YACHT CLUB

FORT LAUDERDALE, FLORIDA, USA

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Thursday, May 10, 2007

15:55 **WELCOME REMARKS**

Kazuo Tsubota, MD

16:00 **10TH ANNIVERSARY LECTURE**

Scheffer C.G. Tseng, MD, PhD
Medical Director of Ocular Surface Center and Ocular Surface Research & Education Foundation
Miami, Florida, USA

Role of Epithelial Mesenchymal Transition in Limbal Deficiency and Tissue Engineering

Epithelial mesenchymal transition (EMT) is prevailing in embryogenesis but occurs only in postnatal fibrosis and cancer metastasis. Our recent laboratory studies indicate that EMT can take place during ex vivo expansion of limbal epithelial stem cells. We will summarize how EMT can partake in limbal deficiency with fibrosis and for formulating effective strategies for tissue engineering of stem cell containing limbal tissues.

17:00 **INVITED LECTURE**

Christophe Baudouin, MD, PhD
Professor and Chair of Ophthalmology
Quinze-Vingts National Ophthalmology Hospital
Paris, France

Drug-induced inflammatory changes on the ocular surface

17:40 **INVITED LECTURE**

Stephen Pflugfelder, MD
James and Margaret Elkins Professor
Director of the Ocular Surface Center
Department of Ophthalmology
Baylor College of Medicine
Houston, Texas, USA

Pro-inflammatory Effects of Dry Eye on the Ocular Surface

Dry eye and desiccating stress have been found to have pro-inflammatory effects on the ocular surface by activating intrinsic stress kinase pathways, stimulating production of matrix degrading enzymes (MMPs) and inflammatory cytokines and chemokines, recruiting Th1 CD4+ T cells to the conjunctival epithelium and disrupting local immunoregulatory mechanisms. These mechanisms will be reviewed.

18:20 **CLOSING REMARKS**

18:30 ~ 20:00 **COCKTAIL RECEPTION AT POOLSIDE TERRACE**

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Friday, May 11, 2007

SESSION I PAPER PRESENTATIONS

Moderator: Murat Dogru, MD, PhD

9:00 **Transient Receptor Potential Vanilloid 4 (TRPV4) mediation of hypotonic stress in Human Corneal Epithelial Cells**
Zan Pan, MD

9:15 **Functional Transient Receptor Potential Vanilloid 1 Expression in Cultured and Intact Corneal Epithelium**
Fan Zhang, MD

9:30 **Pro-inflammatory cytokines and conjunctival cells in Ocular Cicatricial Pemphigoid**
Pierre-Yves Robert, MD

9:45 **Squamous Metaplasia: Stem Cell Issue? Inflammation Issue?**
Wei Li, MD

10:00 **Increased expression of inflammatory cytokines and cathepsins in the corneal epithelium in keratoconus**
Abraham Solomon, MD

10:15 **Discussion**

10:30 **Refreshment Break (30 min)**

SESSION II PAPER PRESENTATIONS

Moderator: Abraham Solomon, MD

11:00 **The Impact of Nasal Conjunctivochalasis on Tear Functions and Ocular Surface**
Murat Dogru, MD, PhD

11:15 **Immunosuppressive therapy for ocular mucous membrane pemphigoid: Strategies and Outcomes**
Valerie Saw, MD

11:30 **Host Conjunctival Inflammation after Amniotic Membrane Transplantation with or without Fibrin Glue for Pterygium**
Ahmad Kheirkhah, MD

11:45 **Corneal Manifestations of Ocular *Demodex* Infestation**
Ahmad Kheirkhah, MD

12:00 **Role of ProKera in Acute Chemical Burns Treatment: An Update**
Victoria Casas, MD

12:15 **Discussion**

12:30 **Lunch Break (1 hour)**

13:40 **AWARD LECTURE**

Winston Whei-Yang Kao, Ph.D.
Benjamin And Louise Tate Professor of Ophthalmology
Director of Ophthalmic and Connective Tissue Research,
Ophthalmology, College of Medicine, University of Cincinnati,
Cincinnati, Ohio, USA

Growth Factors in Normal and Diseased Corneal Epithelium

2:40 **INSTITUTIONAL REVIEWS**
Moderator: Shigeto Shimmura, MD

- Kohji Nishida, MD, Tohoku University School of Medicine, Sendai, Japan
- John Dart, MA, DM, FRCOphthal, Moorfields Eye Hospital
- Scheffer C.G. Tseng, MD, PhD, Ocular Surface Research & Education Foundation, Miami, USA
- Shigeto Shimmura, MD, Keio University School of Medicine, Tokyo, Japan

3:45 **CLOSING REMARKS**