

# 6<sup>th</sup> International Conference on the Tear Film & Ocular Surface: Basic Science and Clinical Relevance

## Scientific Program

Session	Session Title	Research Areas	Keynote Speakers	Moderators
Thursday, September 23, 2010				
Day 1				
	Opening Remarks		Stefano Bonini (Italy)	
	Claes H. Dohlman Conference Address		Shigeru Kinoshita (Japan) – The ocular surface in health and disease	Stefano Bonini (Italy)
1	Sugar Can Be Good For You: Glycobiology &	Mucins, cornea & conjunctival epithelial cells, goblet cells, nerves, glycosylation,	Jeffrey A. Whitsett (USA) – Goblet cell differentiation  Michael A. Hollingsworth	Pablo Argueso (USA)  Monica S. Berry (UK)

	Mucins	signaling, biochemistry, gene expression, regulation, functions, translational research, etc.	(USA) - Membrane mucins as multifunctional molecules	
2	International Dry Eye WorkShop: Updates	<p>The Dry Eye WorkShop (DEWS) was an international workshop convened to review critically the classification, epidemiology, diagnosis, basic and clinical research, management and therapy, and clinical trial methodology of dry eye disease. The DEWS report, which required the efforts of over 70 people for several years, was published in The Ocular Surface in 2007 and is available in multiple languages at <a href="http://www.TearFilm.org">www.TearFilm.org</a>. This session will feature recent</p>	<p>Anthony J. Bron (UK) – Recent advances in defining and classifying dry eye disease</p> <p>Kelly K. Nichols (USA) – Epidemiology</p> <p>Murat Dogru (Japan) – Methodologies to diagnose and monitor dry eye disease</p> <p>Gary N. Foulks (USA) – Design and conduct of clinical trials</p> <p>Michael A. Lemp (USA) – Management and therapy</p> <p>Ilene K. Gipson (USA) – New research advances in</p>	<p>Donald R. Korb (USA)</p> <p>John E. Sutphin (USA)</p>

		advances in all DEWS topics.	understanding dry eye disease	
Poster Session 1				Thomas J. Millar (Australia)  Friedrich P. Paulsen (Germany)
3	Reports from the International Workshop on Meibomian Gland Dysfunction (MGD)	The International Workshop on Meibomian Gland Dysfunction (MGD) was designed to: [a] conduct an evidence-based evaluation of meibomian gland structure and function in health and disease; [b] develop a contemporary understanding of the definition and classification of MGD; [c] assess methods of diagnosis, evaluation and grading of severity of MGD; [d] develop appropriate norms of clinical trial design to evaluate pharmaceutical interventions	Kelly K. Nichols (USA) – Introduction  Erich Knop (Germany) – Anatomy, physiology & pathophysiology  Kari Green-Church (USA) – Tear film lipids, and lipid- protein interactions in health and disease  J. Daniel Nelson (USA) – Definition & Classification  Debra A. Schaumberg (USA) – Epidemiology of, and risk	James P. McCulley (USA)  Eric B. Papas (Australia)

		<p>for the treatment of MGD; and [e] develop recommendations for the management and therapy of MGD. More information about this Workshop, which is currently ongoing, may be found at <a href="http://www.tearfilm.org/mgdworkshop/">http://www.tearfilm.org/mgdworkshop/</a> This session will feature reports from this Workshop</p>	<p>factors for, MGD</p> <p>Alan Tomlinson (UK) – Evaluation, diagnosis &amp; grading of severity of MGD</p> <p>Penny A. Asbell (USA) – Design &amp; conduct of clinical trials</p> <p>Gerd Geerling (Germany) – Management &amp; therapy</p>	
4	The Tearome: Not Just Hype	<p>Lacrimal and meibomian glands, ocular surface cells, nerves, secretion, signaling, transport, biochemistry, gene expression, control systems, functions, sex differences, osmolarity, and translational research, as well as tear film biophysics, biomechanics,</p>	<p>Miguel C. Seabra (UK) – Molecular mechanisms of regulated exocytosis</p> <p>Michal L. Schwartzman (USA) – Eicosanoids</p> <p>Kazuo Tsubota (Japan) – Impact of aging on the ocular surface</p>	<p>Ben Glasgow (USA)</p> <p>Gordon Laurie (USA)</p>

		proteomics, lipidomics and glycomics, etc.		
Friday, September 24, 2010				
Day 2				
5	Late Breaking News: Sjögren's Syndrome	All aspects	<p>John Harley (USA) – Genetics</p> <p>Barbara Caffery (Canada) – Clinical &amp; biochemical aspects</p> <p>Denise L. Faustman (USA) – Embryogenesis, autoimmunity &amp; treatment</p> <p>Simon Bowman (UK) – Quality of life</p> <p>Troy E. Daniels (USA) - Current status and future objectives of the Sjögren's International Collaborative Clinical Alliance</p>	<p>Esen K. Akpek (USA)</p> <p>Ammon B. Peck (USA)</p>

6	Visual & Optical Effects of Tear Film Instability	All aspects of tear film instability	Carolyn Begley (USA) – Impact of tear film instability on visual acuity  Larry N. Thibos (USA) – Optical effects of tear film instability	Pablo Artal (Spain)  Christine Purslow (UK)
Poster Session 2				Winston W. Kao (USA)  Eduardo M. Rocha (Brazil)
7	Inflammation: A Cause or Consequence of Ocular Surface Disease	Inflammation, immunity, Toll- like receptors, allergy, etc.	To be announced – Inflammation: A cause or consequence of mucosal surface disease  Reza Dana (USA) - Induction of CD4+ T cell mediated immunity in dry eye disease  Robert L. Hendricks (USA) - Role of inflammation in HSV-	Virginia L. Calder (UK)  Alison M. McDermott (USA)

			1-induced stromal keratitis	
8	The Best Defense is a Good Offense: Ocular Surface Infection	Bacteria, viruses, fungal, keratitis, Acanthamoeba and other infections	<p>Suzanne M. J. Fleiszig (USA) – Bacterial-host interactions at the ocular surface</p> <p>Eric Pearlman (USA) – Fungal keratitis</p> <p>Noorjahan Panjwani (USA) – Impact of Acanthamoeba infection on the tear film and ocular surface</p>	<p>Gerald B. Pier (USA)</p> <p>Fiona J. Stapleton (Australia)</p>
<b>Saturday, September 25, 2010</b>				
<b>Day 3</b>				
9	Ocular Surface Regeneration & Reconstruction	Stems cells from all ocular surface tissues and adnexa, repair, regeneration	<p>Masataka Ito (Japan) – Lacrimal gland regeneration</p> <p>Graziella Pellegrini (Italy) – Ocular surface stem cells</p> <p>Shigeto Shimmura (Japan) –</p>	<p>Dimitri T. Azar ( USA)</p> <p>Victor L. Perez (USA)</p>

			Ocular surface reconstruction	
10	Drug, Preservative and Contact Lens Solution Interactions with the Tear Film and Ocular Surface	All aspects	Lyndon Jones (Canada) – Contact lens solutions  Christophe Baudouin (France) – Effect of all topical drug preservatives on the tear film and ocular surface	Teruo Nishida (Japan)  John L. Ubels (USA)
Poster Session 3				Darren G. Gregory (USA)  E. Ian Pearce (UK)
11	Macro to Micro: New Imaging Approaches for Understanding the Ocular Surface	All aspects	Roberto Weigert (USA) - Imaging protein secretion in the exocrine glands of live animals by intravital microscopy  Nathan Efron (Australia) –	Shukti Chakravarti (USA)  Jianhua Wang (USA)

			Ocular surface imaging	
12	New and Emerging Diagnostics and Treatments	Emerging diagnostic technologies, outcome measures, new therapies, etc	<p>Franz Grus (Germany) – Relevance of tear film proteomics for the diagnosis of disease</p> <p>Alexander V. Kabanov (USA) – New polymer systems for delivery of therapeutics</p> <p>James Chodosh (USA) – Keratoprostheses</p>	<p>Eddie C. Alfonso (USA)</p> <p>Jun Shimazaki (Japan)</p>
Closing Session			<p>Sarah F. Hamm-Alvarez (USA) – Basic research perspective</p> <p>Jason J. Nichols (USA) – Clinical research perspective</p> <p>Melissa Liew (USA) - Industry perspective</p>	<p>Carlos Belmonte (Spain)</p>

	Closing Remarks		Carlos Belmonte (Spain)	
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