



The Cornea and Tissue Engineering

A JSPS-Sponsored Research Symposium at Cardiff University

Main Lecture Theatre & Atrium
School of Optometry & Vision Sciences
Cardiff University

18-19 August, 2011

*Organised by Andrew Quantock, Noriko Koizumi
& Shigeru Kinoshita*



*Additional support kindly provided by
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PROGRAMME

[Thursday 18 Aug]

SESSION 1: The Stroma & Keratocytes

Chair: Noriko Koizumi		
1.00-1.10	Kozo Hiramatsu <i>JSPS-London</i>	Welcome Address
1.10-1.40	Keith Meek <i>Cardiff University</i>	Stromal Ultrastructure and Macromolecular Interactions
1.40-2.00	Tomoya Akama <i>Kansai Medical University</i>	Biosynthesis of Corneal Keratan Sulfate Glycosaminoglycan and its Functional Role in the Cornea
2.00-2.20	Rob Young <i>Cardiff University</i>	Cellular Control of Matrix Deposition in 3-D and Large Tissue Volumes
2.20-2.40	Mayumi Yamamoto <i>Doshisha University and Senju Japan</i>	The Influence of a Selective ROCK Inhibitor on the Healing of Keratocytes and Stroma
2.40-3.40 Tea/Coffee/Poster Viewing		
Chair: Andrew Quantock		
3.40-4.00	Charles Archer <i>Cardiff University</i>	Stem Cell Technologies and Cartilage Regeneration
4.00-4.20	Morio Ueno <i>Kyoto Prefectural University of Medicine</i>	The Induction of Ocular Tissues from Pluripotent Stem Cells
4.20-4.40	Phil Stephens <i>Cardiff University</i>	Oral Mucosal Progenitors for Ocular Surface Repair
4.40-5.00	Polly Watson <i>JSPS-London</i>	UK-Japan Research and the JSPS Funding Programmes
5.00-6.00	Drinks Reception/Poster Viewing	
6.00-6.45	PUBLIC LECTURE Justyn Regini <i>Cardiff University</i>	Changing Vision Seen Through the Paintings of Monet

SESSION 2: The Bounding Layers

Chair: Nigel Fullwood		
9.20-9.50	Shigeru Kinoshita <i>Kyoto Prefectural University of Medicine</i>	<i>Towards Sophisticated Therapeutic Modalities for Corneal Diseases</i>
9.50-10.10	Harminder Dua <i>University of Nottingham</i>	<i>Mesenchymal-Epithelial Transition in the Corneal Stroma</i>
10.10-10.30	Satoshi Kawasaki <i>Kyoto Prefectural University of Medicine</i>	<i>Molecular Pathophysiology of Gelatinous Drop-like Dystrophy</i>
Chair: Kohji Nishida		
10.30-11.00	Tea/Coffee/Poster Viewing	
11.00-11.30	Yasuhiko Tabata <i>Kyoto University</i>	<i>Tissue Engineering for Regeneration Therapy and Stem Cell Biology</i>
11.30-11.50	Che Connon <i>University of Reading</i>	<i>What Makes a Good Substrate for Ocular Surface Engineering?</i>
11.50-12.10	Nigel Fullwood <i>Lancaster University</i>	<i>Photothermal Nanospectroscopy of Corneal Epithelium</i>
12.10-12.30	Bernice Wright <i>University of Reading</i>	<i>Alginate Encapsulation of Corneal Epithelial Cells.</i>
12.30-1.30	Poster Viewing (including buffet lunch)	

Chair: Che Connon		
1.30-2.00	Yoshinori Oie <i>Osaka University</i>	<i>Stem Cells and Regenerative Medicine for Cornea</i>
2.00-2.20	Julie Daniels <i>UCL/Moorfields</i>	<i>Challenges and Progress Towards a Tissue Engineered Ocular Surface.</i>
2.20-2.40	Takahiro Nakamura <i>Kyoto Prefectural University of Medicine</i>	<i>Long-Term Results of Cultivated Epithelial Transplantation for Severe Ocular Surface Dysfunction</i>
2.40-3.00	Shelia McNeil <i>Sheffield University</i>	<i>Simplifying the Transfer of Cultured Limbal Stem Cells from the Lab to the Patient</i>
3.00-3.50	Tea/Coffee/Poster Viewing	
Chair: Shigeru Kinoshita		
3.50-4.10	Noriko Koizumi <i>Doshisha University</i>	<i>New Strategies for Corneal Endothelial Tissue Engineering</i>
4.10-4.30	Frank Larkin <i>UCL/Moorfields</i>	<i>Gene Transfer to the Corneal Endothelium</i>
4.30-4.50	Naoki Okumura <i>Doshisha University</i>	<i>A ROCK Inhibitor Eye Drop Treatment for Corneal Endothelial Dysfunction</i>
4.50-5.00	Andrew Quantock <i>Cardiff University</i>	<i>Closing Remarks</i>
7.00-9.30 SYMPOSIUM DINNER, CARDIFF CASTLE		