

8th International Workshop on Scleroderma Research

Trinity College, Cambridge

31 July - 4 August 2004

Saturday 31 July

from 12:30 CHECK-IN AND REGISTRATION - College Office

Evening Trinity College Bar

Sunday 1 August

08.30 **WELCOME**

C Black and J Korn

08:40 **THE CARWILE LEROY MEMORIAL LECTURE**

B de Crombrughe

Transcriptional mechanism that regulate mesenchymal cell differentiation and commitment

09:20-10:50 SESSION I: Cellular and Molecular Immunology

Chairs: F Liew and M Binks

09:20 **Key Note** - T cells and inflammation

Richard Flavell (USA)

09:50 T cells in Scleroderma

C Platsourcas (USA)

10:10 T cell suppression and TGFbeta in autoimmunity

S Wahl (USA)

10:30 NK cells and Molecular Mimicry

R Moots (UK)

10:50-11:20 BREAK

11.20-12:50 SESSION II: Cutting Edge Technologies

Chairs: M Dunn and H Gardner

11.20 **Key Note** - Degradomics

C Overall (Canada)

11:50 Proteomic tagging

W Blackstock (UK)

12:10 Genetics of autoimmune diseases

B Ollier (UK)

12:30 Transcriptomics

M Hubank (UK)

From 12:00 POSTER PRESENTATIONS (SET UP)

12:50-13:45 LUNCH

14-15:10 SESSION III: Functional Genomics

Chairs: M Mayes and J Norman

14:00 **Key Note** - Transcriptional control of the ECM

F Ramirez (USA)

14:30 Immunogenetics and SNP analysis

F Tan (USA)

14:50 Post-transcriptional modifications

J Godovac-Zimmermann (UK)

15:10-15:30 BREAK

15:30-17:00 SESSION IV: "The Future"

Chairs: C Black and J Korn

15:30 **Key Note** – the role of cell-cell and cell-matrix contact in connective tissue remodeling

B Hinz (Switzerland)

16:00 Controlling cell fate by TGF-beta family members

P ten Dijke (The Netherlands)

16:20 Mesenchymal stem cells and tissue repair

M Pittenger (USA)

16:40 Fibrocytes: role in tissue repair and fibrosis

R Bucala (USA)

17:00-18:30 POSTER VIEWING

18:30-20:00 RECEPTION Wren Library Cloisters

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Monday 2 August

- 08:30-10:00** **SESSION V: Adhesion, Motility, Migration and Contraction** **Chairs: T Krieg and R Brown**
- 08:30 **Key Note** - Diverse role of integrins and their ligands in biology D Sheppard (USA)
- 09:00 Cell movement: cues and mechanism(s) K Wolf (FRG)
- 09:20 Tissue movements in wound repair P Martin (UK)
- 10:00-10:30 BREAK
- 10:30-12:00** **SESSION VI: Extracellular matrix and remodeling** **Chairs: A Postlethwaite and F Ramirez**
- 10:30 **Key Note** - Regulation of cell invasion and migration via targeted proteolysis G Murphy (UK)
- 11:00 Role of collagen cross-linking in fibrosis R Bank (Netherlands)
- 11:20 Supramolecular organisation of the ECM C KE Kadler (UK)
- 11:40 Fibroblast formation of microfibrils B Lafyatis (USA)
- 12:00-13:00 LUNCH
- 13:00-14:10** **SESSION VII: Vascular Remodeling** **Chairs: J Pearson and C Jackson**
- 13:00 **Key Note** - Vessel remodeling and scarring P Weissberg (UK)
- 13:30 Control of vascular smooth muscle cell differentiation R Schwartz (USA)
- 13:50 The role of pericytes in blood vessel development and function C Betsholtz (Sweden)
- 15:00-15:30** **CAIUS COLLEGE LIBRARY TOUR**
- 16:10-17:00** **POSTER VIEWING**
- 17:00-19:00** **SESSION VIII: Animal Models** **Chairs: G Wick and D Abraham**
- 17:00 **Key Note** – BMP/CTGF K Lyons (USA)
- 17:30 Approaches to cutaneous fibrosis Y Mori (USA)
- 17:50 Transgenic directed expression C Denton (UK)
- 18:10 Molecular mechanisms of induction of skin fibrosis in TSK mice by profibrogenic cytokines C Bona (USA)
- 18:30 Transplantation models of scleroderma A Gilliam (USA)
- 19:00-20:00 **ABSTRACT SESSIONS / TRAVEL AWARD PRESENTATIONS**

Tuesday 3 August

- 08:30-10:00** **SESSION IX: Cell signaling and pathways I** **Chairs: J Varga and F Cooke**

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08:30	Co-operation between signaling pathways	S Cook (UK)
09:00	The regulation of Fibroblast function by JNK	A Mauviel (FR)
09:30	Post-transcriptional control of the inflammatory response	A Clark (UK)
10:00-10:30	COFFEE BREAK	
10:30-12:00	SESSION X: Cell signaling and pathways II	Chairs: A Mauviel and K Rubin
10:30	TGF-beta and Smad signaling	J Varga (USA)
11:00	Membrane rafts and cell signaling	J Hsuan (UK)
11:30	Signaling pathways of the TNF superfamily	B Aggarwal (USA)
12:00-13:00	LUNCH	
13:00-14:30	SESSION XI: Fibrosis	Chairs: C Black and J Korn
13:00	Key note - Models and mechanisms of lung fibrosis	S Phan (USA)
13:30	Fibroblast- Survival of the fittest	J Korn (USA)
13:50	Transcriptional mechanisms	A Leask (UK)
14:10-14:30	SHORT BREAK	
14:30-16:00	SESSION XII: Regulation of the ECM	Chairs: S Maity and G Bou-Gharios
14:30	Key note - The Biology of MMP and TIMP	H Nagase (UK)
15:00	Thrombin – a key player in fibrosis	R Silver (USA)
15:20	CBF and collagen	S Jimenez (USA)
15:40	Integrins and the Matrix	T Krieg (FRG)
16:00-16:30	TEA BREAK	
16:30-18:00	SESSION XIII: Control of blood vessel development and function	Chairs: A Gabrielli and R Bruckdorfer
16:30	Key Note – Biology of the Endothelin Axis	M Clozel (Switzerland)
17:00	Cell specific gene targeting of blood vessels using Phage display libraries	C Pitzalis (UK)
17:20	The Endothelium	J Pearson (UK)
17:40	Bone Morphogenic Proteins	N Morrell (UK)
18:00-19:30	POSTER VIEWING	
19:30	BANQUET (Key note lecture), Grand Hall	Sir Keith Peters

Wednesday 4th August

Scleroderma Clinical Trials Consortium Session: Biology into Practice

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08:30-09:30	The Lung in Scleroderma	Chairs: P Maddison and R du Bois	
08:30	Changing concepts of pathogenesis	A Wells (UK)	
08:50	Measurement of Outcome	F Martinez (USA)	
09:10	Questions & Answers		
09:30-10:30	Skin Involvement		
09:30	The Scientific Basis for Intervention	J Varga (UK)	
09:50	Skin as an Outcome Measure	C Denton (UK)	
10:10	Questions & Answers		
10:30-11:00	BREAK		
11:00-12:30	New Investigations of Outcome		
11:00	Durometer assessment of skin	P Merkel (USA)	
11:15	Quality of Life	P Nietert (USA)	
11:30	Decision analysis in pulmonary hypertension	K Highland (USA)	
11:45	Long term outcomes in scleroderma patients with severe PAH	H Farber (USA)	
12:00	Questions & Answers		
12:30-13:30	LUNCH		
13:30-15:00	Drug Development in Scleroderma		
13:30	Standards of Approvability – U.S. View	L Simon (USA)	
14:00	Standards of Approvability – EMEA View	I Hudson (UK)	
14:30	Questions & Answers		
15:00-16:00	PM Emerging Therapies for Scleroderma		
	Immune reconstitution	A Tyndall (Switzerland)	
	Anti-fibrotic approaches	Y Lavrosky (USA)	
	Organ-specific		
15:30	Roundtable Discussion ' <i>Is Scleroderma a treatable disease?</i> '		
16:00	SCTC Business Meeting/EUSTAR	P Clements (USA) and Matucci-Cerinic (IT)	M
16:30	END OF SESSION		