

Cancer Degradome Symposium 8th – 9th October 2008
Schedule of talks

Wednesday 8th October 2008

10:00 - 10:55 Registration and coffee

10:55 - 11:05 Welcome: Prof Gillian Murphy (University of Cambridge)

11.05 - 12.50 Session 1, Chair: Sue Eccles, The status of proteinases as targets in cancer
Supported by Cancer Research UK

11.05 - 11.20 Sue Eccles (Institute of Cancer Research, Sutton)
Proteinases as therapeutic targets in cancer: challenges and opportunities

11.20 - 11.50 Yasunori Okada (Keio University, Tokyo)
Modulation of the tissue microenvironment in human cancers by cancer cell-derived metalloproteinases (MMPs and ADAMs): What and how can we target in cancers?

11.50 - 12.20 Carlos López-Otín (University Institute of Oncology, Oviedo)
Protease genomics and the cancer degradome

12.20 - 12.35 Elena R. Motrescu and Marie-Christine Rio (Université Louis Pasteur)
Matrix metalloproteinase-11/stromelysin-3 exhibits collagenolytic function against collagen VI under normal and malignant conditions

12.35 - 12.50 Ida K. Lund *et al.* (Finsen Laboratory)
Antibody-mediated targeting of the uPA proteolytic function neutralizes fibrinolysis in vivo

12.50 - 13.00 The European Association for Cancer Research (EACR) Research Award presentation

13.00 - 14.10 Lunch and poster viewing

14.10 - 15.40 Session 2, Chair: Achim Krüger, Model systems to study the role of proteinases
Supported by the British Society for Matrix Biology

14.10 - 14.40 Achim Krüger (Technical University of Munich)
Fertilizing impact of MMP-9-dependent alterations in bone marrow homeostasis on seeding of tumor cells to the liver

14.40 - 15.10 Thomas Reinheckel (Albert-Ludwigs-University Freiburg)
Genetic analysis of lysosomal protease functions in mouse models for breast and skin cancer

15.10 – 15.40 Thomas Bugge (National Institute of Dental and Craniofacial Research, Bethesda)
Transmembrane serine proteases and their transmembrane serine protease inhibitors. Guardians of epithelial integrity

15.40 – 15.50 Roisin Burns, Business Development Manager (Abcam)

15.50 - 16.20 Tea and poster viewing

16.20 - 17.20 Session 3, Chair: Hideaki Nagase, Imaging in model systems

16.20 - 16.50 Bonnie Sloane (Wayne State University, Detroit)
Tumors in the Context of Their Microenvironment: Proteolysis as a Paradigm

16.50 - 17.20 Katrina Wolf (Nijmegen Centre for Life Sciences)
Dynamic imaging of proteases - targets in multicellular tumor invasion

17.20 - 17.50 Session 4, Oral Communications

17.20 – 17.35 Beverley Packard (OncoImmunin, Gaithersburg)
"Visualization of collagenolytic activity at the leading edge of invasive tumor cells: protease activity is essential for migration through cross-linked collagen"

17.35 - 17.50 Andrea Varro *et al.* (University of Liverpool)
The role of urokinase plasminogen activator (uPA) in gastric epithelial proliferative responses to the oncogenic bacterium Helicobacter pylori

17.50 – 18.50 Wine and poster viewing

Thursday 9 October 2008

09.00 - 10.40 Session 5, Chair: Yoshi Itoh, Cell Biology

09.00-09.30 Yoshi Itoh (Imperial College, London)

Temporal and spatial regulation of MT1-MMP: impact on cell migration and tubulogenesis

09.30 - 10.00 Alicia Arroyo (Centro Nacional de Investigaciones Cardiovasculares, Madrid)

New approaches to the understanding of the role of MT-MMPs in angiogenesis and inflammation

10.00 - 10.30 Agnes Noel (Université de Liège)

Insight into the contribution of MMPs in lymphangiogenesis, angiogenesis and metastatic dissemination

10.30 - 10.45 Akira Ito *et al.* (Tokyo University of Pharmacy and Life Sciences)

Binding of interstitial procollagenase-1 to EMMPRIN of tumor cell surface is crucial for MMP-1 to promote cellular invasion and metastasis

10.45 – 11.15 Coffee and poster viewing

11.15-12.45 Session 6, Chair: G. Murphy, Multifarious roles of proteinases

11.15 - 11.45 Paul Saftig (Christian-Albrechts-Universität zu Kiel)

Insight into the (patho) physiology of ADAM protease mediated shedding events

11.45 - 12.15 Carl Blobel (Weill Medical College of Cornell University, New York)

Role of ADAMs in angiogenesis and breast cancer

12.15 - 12.30 Louise Lambert *et al.* (University of Leeds)

Regulation of Prostate Cancer Progression by the M13 family peptidases NEP, ECE-1 and its isoforms- a novel therapeutic opportunity?

12.30 - 12.45 Marie Kveiborg (University of Copenhagen and CRUK LRI)

ADAM12 - a multifunctional protein involved in excessive growth

**12.45 - 14.15 Lunch and poster viewing
Abcam ChIP Session**

14.15 - 16.15 Session 7, Chair: Dylan Edwards, Novel Translational Approaches

Supported by Big 'C' Norwich

14.15 - 14.30 Dylan Edwards (UEA Norwich)

The FP6 CancerDegradome project

14.30 - 15.00 Vincent Dive (Commissariat à l'Energie Atomique, Saclay)

Selective inhibitors of MMP-12: from chemistry to therapeutic applications

15.00 - 15.15 Netta Sela *et al.* (Weizmann Institute of Science)

Synthetic catalytic site mimicry antigen give rise to highly potent inhibitory antibodies specific to active metalloproteinase

15.15 - 15.45 Galia Blum (Stanford University)

Non-Invasive Optical Imaging of Cysteine Proteases Activity using Near Infrared Fluorescent Activity Based Probes

15.45 - 16.00 Jason Gill *et al.* (University of Bradford)

Development of Antitumour Agents Activated by Membrane-Type Matrix Metalloproteinases

16.00 - 16.15 Helene Piccard *et al.* (University of Leuven)

Reverse degradomics of proteases

16.15 Conference ends