ERS Research Seminar

Proteases at the cutting edge: friends or foes in chronic lung diseases?

11 – 13 November 2015 – Amsterdam, Netherlands
(Scientific Programme as of October 26, 2015)

Wednesday, 11 November 2015

18.30 – 18.45  Welcome and introduction – Keren Borensztajn and Cliff Taggart
18.45 – 19.30  Keynote lecture: “Unraveling the protease web” – Christopher M. Overall, Canada
19.30 – 20.00  General discussion
20.15  Dinner

Thursday, 12 November 2015

Session I – Emerging functions of proteases: lessons from other diseases
Chairs: Carsten Schultz, Bruno Crestani

08.30 – 09.00  Introducing proteases: Serine proteases – Dieter Jenne, Germany
09.00 – 09.30  Localizing the proteolytic activity: lysosomal and extracellular Cystein cathepsins – Boris Turk, Slovenia
09.30 – 10.00  General discussion
10.00 – 10.30  Coffee break

Session IIa – At the cutting edge: diversity of protease actions in lung inflammation and infection
Chairs: Boris Turk, Cliff Taggart

10.30 – 11.00  The role of Proteases in CF lung Disease – Marcus Mall, Germany
11.00 – 11.15  Neutrophil proteases alter the interleukin-22-receptor-dependent lung antimicrobial defence – Mustapha Si-Tahar, France
11.15 – 11.45  Emerging roles of human cysteine proteases in fibrosis and infection – Gilles Lalmanach, France
A role for the cysteine protease cathepsin S in lung inflammation – Anthony A Abladey, UK

General discussion

Lunch

POSTER SESSION

Coffee break

Session IIb – At the cutting edge: diversity of protease actions in chronic lung diseases
Chairs: Chris Overall, Keren Borensztajn

ADAMS & ADAMTS in airway diseases – Didier Cataldo, Belgium

The metalloproteinase ADAM10 on endothelial cells critically regulates lung inflammation in a time-dependent manner – Julian Schumacher, Germany

Serpinopathies – Sabina Janciauskiene, Germany

General discussion

Bus transfer to go to restaurant (Dinner 19.30)

Friday, 13 November 2015

Session III – Novel tools for Protease research in diagnosis and therapy
Chairs: Sabina Janciauskiene, Dieter Jenne

Proteases as tools for diagnosis and novel therapeutics – Silke Meiners, Germany

Visualization of channel-activating protease (CAP) activity by peptide-based FRET probes - Verena Rickert-Zacharias, Germany

Ratiometric fluorescent reporters to detect lung protease activity – Carsten Schultz, Germany

Coffee break

General discussion and conclusions

Faculty meeting: what happens next?