

Scientific Programme

Friday, March 26, 2004

08:30 – 12:10

Genomics/proteomics

Chair: W. MacNee (Edinburgh, United Kingdom)

- 08:30** **Assessing genetics of complex traits**
W. Cookson (Oxford, United Kingdom)
- 09:10** **Use of expression microarrays in studies of asthma, acute lung injury and emphysema**
D. Sheppard (San Francisco, United States of America)
- 09:50** **Quantitative proteomic analysis: methods and applications**
D. Goodlett (Seattle, United States of America)
- 10:30** **Coffee break**
- 10:50** **OP1 Oral presentation: Immunosuppression in lung of vitamin E deficient TTP knockout mice**
B. Schock (Belfast, United Kingdom)
- 11:10** **OP2 Oral presentation: Different migratory properties, proteoglycan- and proteome profiles of two distinct forms of myofibroblasts obtained from central bronchial biopsies from asthmatic patients**
E. Tufvesson (Lund, Sweden)
- 11:30** **OP3 Oral presentation: IL-9 protects against bleomycin-induced lethal lung injury through a prostaglandin-dependent mechanism**
M. Arras (Brussels, Belgium)
- 11:50** **OP4 Oral presentation: Effect of diesel exhaust particles on human lung epithelial cell proliferation and death**
H. Bayram (Diyarbakir, Turkey)

12:10 – 13:00

Poster presentations

- PP5 Toll like receptors in acute exacerbations of chronic obstructive pulmonary disease (COPD)**
J. Pons (Palma de Mallorca, Spain)
- PP6 Modulation of respiratory epithelial cell function by bacterial DNA**
N. Khaira (Perth, Australia)
- PP7 Neutrophil elastase up regulates beta defensin 2 expression in human bronchial epithelial cells**
S. Griffin (Dublin, Ireland)
- PP8 Interleukin(IL)-1beta gene transfer in mouse lungs induces a Smad3 dependant fibrotic response**
P. Bonniaud (Dijon, France)
- PP9 Matrix metalloproteinase (MMP) activity is related to the levels of the extracellular compound hyaluronan in COPD**
M. Dentener (Maastricht, The Netherlands)
- PP10 Contrasted patterns of DCs maturation induced by reactive oxygen and nitrogen species**
C. Obregon (Geneva, Switzerland)
- PP11 Family linkage analysis and age specific associations of -403 G/A promoter RANTES polymorphism with asthma**
S. Al-Abdulhadi (Aberdeen, United Kingdom)
- PP12 Alpha-defensins NHP-1 and NHP-2 induce strong platelet- activation leading to CD40L expression**
B. Kehrel (Munster, Germany)
- PP13 Decrease in fine T-cell subset ratio MT2/MT1 during steroid reduction of asthmatic patients**
H. Hoffmann (Aarhus, Denmark)
- PP14 p38mapk and MEK1/2 inhibition in hypoxia contribute to cellular oxidant injury**
R. Jackson (Birmingham, United States of America)

- PP15 Regulation of the urokinase receptor (CD87) during infection/inflammation by host or bacterial proteinases**
D. Pidar (Paris, France)
- PP16 Interaction between human lung fibroblasts and T-lymphocytes downregulates T-cell functions**
C. Mastruzzo (Catania, Italy)
- PP17 The genetic & functional consequences of mutations in the IL-18 promoter in sarcoidosis**
D. Kelly (Dublin, Ireland)
- PP18 Physiologic and morphological evidence of lung parenchyma remodeling in a murine model of chronic asthma**
P. Rocco (Rio de Janeiro, Brazil)
- PP19 Kinetics and mechanisms of monocyte recruitment in acute lung inflammation**
K. Janardhan (Saskatoon, Canada)
- PP20 siRNA specific for the p65 subunit of NF-kappa B modulates the inflammatory response of the airway epithelial cells**
J. Platz (Marburg, Germany)
- PP21 Airway expression of Indoleamine-2, 3-dioxygenase (IDO) and an exaggerated inflammatory response**
K. van der Sluijs (Amsterdam, The Netherlands)
- PP22 The mechanisms of pulmonary toxicity of welding fumes**
J. McNeilly (Edinburgh, United Kingdom)
- PP23 Interleukin-13 Receptor Alpha 2; a regulator of IL-13 and IL-4 signal transduction**
A. Andrews (Southampton, United Kingdom)
- PP24 Early transcriptional response to TNF- α stimulation in alveolar epithelial cells**
C. dos Santos (Toronto, Canada)

13:00 – 14:00 Lunch, San Domenico Palace Hotel (“Sala Specchi”)

14:00 – 17:40 Regulation of inflammation

Chair: R. Pauwels (Ghent, Belgium)

14:00 Regulation of inflammation

A. W. Segal (London, United Kingdom)

14:40 Regulation of pulmonary inflammation and its consequences by collectins and apoptotic cells

P. Henson (Denver, United States of America)

15:20 Mechanisms of acute lung injury

S. Uhlig (Borstel, Germany)

16:00 Coffee break

16:20 OP25 Oral presentation: Involvement of the sarco-endoplasmic reticulum calcium pump SERCA2 in skeletal muscle wasting of patients with COPD

X. Busquets (Palma de Mallorca, Spain)

16:40 OP26 Oral presentation: Differential regulation of eotaxin-2 and -3 production in poorly vs. well-differentiated primary bronchial epithelial cell cultures: effects of IL-4 and IL-13 and retinoic acid

S. van Wetering (Leiden, The Netherlands)

17:00 OP27 Oral presentation: Nitric oxide (NO) fails to protect against methacholine induced bronchoconstriction in a transgenic mouse model of airway inflammation

S.E. Dahlén (Stockholm, Sweden)

17:20 OP28 Oral presentation: Fas-mediated acute lung injury requires membrane Fas expression on non-myeloid cells of the lungs

G. Matute-Bello (Seattle, United States of America)

19:00 Welcome Ceremony

San Domenico Palace Hotel “La Chiesa”

19:30 Welcome Dinner

San Domenico Palace Hotel “Sala Specchi”

Saturday, March 27, 2004

08:30 – 12:10

Regulation mechanisms in inflammation II

Chair: L. P. Nicod (Bern, Switzerland)

08:30 Regulation of neutrophil function by hypoxia
E. R. Chilvers (Cambridge, United Kingdom)

09:10 Blocking innate immunity in humans: wise or foolish?
T. R. Martin (Seattle, United States of America)

09:50 Gene regulation
P. J. Barnes (London, United Kingdom)

10:30 Coffee break

10:50 OP29 Oral presentation: Endothelin but not angiotensin pathway modulates apoptosis of the bronchial epithelial-mesenchymal cells
J-D. Aubert (Lausanne, Switzerland)

11:10 OP30 Oral presentation: Importance of tumor necrosis factor α cleavage process in reimplantation lung injury
T. Goto (Tokyo, Japan)

11:30 OP31 Oral presentation: Phagocytosis of apoptotic granulocytes by bronchial epithelium and monocyte derived macrophages
D. Sexton (Aberdeen, United Kingdom)

11:50 OP 32 Oral presentation: Cigarette smoke alters chromatin remodelling, activates NF- κ B and induces pro-inflammatory gene transcription in rat lungs
J. Marwick (Edinburgh, United Kingdom)

12:10 – 13:00

Poster presentations

PP33 Proteinase expression in the lungs of mice exposed to cigarette smoke
K. Bracke (Ghent, Belgium)

PP34 Polymerized alpha1-antitrypsin is present on lung vascular endothelium. New insights into the biological significance of alpha1-antitrypsin polymerization
R. Aldonyte (Malmö, Sweden)

PP35 The role of enzymatically active house dust mite (Der p) extract and tumour necrosis factor-alpha (TNF-alpha) in mediating IL-8 induced inflammation in severe asthma: comparison of monolayer cultures and bronchial explants
D. E. Davies (Southampton, United Kingdom)

PP36 Rosiglitazone and 15-Deoxy-delta 12, 14-Prostaglandin J2, ligands of the peroxisome proliferator-activated receptor-gamma (PPAR-gamma), reduce lung injury induced by bleomycin
C. Vancheri (Catania, Italy)

PP37 Opposing effects of 60% O2 and neutrophil influx on alveologenesis in the neonatal rat
A. Tanswell (Toronto, Canada)

PP38 Chemokines in infection and inflammation: the relative contribution of human alveolar macrophages (HAM) and alveolar type II epithelial (HATII) cells
A. Thorley (London, United Kingdom)

PP39 Inflammatory cells as source of tachykinin-induced mucus secretion
D. Groneberg (Giessen, Germany)

PP40 Cytokine and lipid mediators of inflammation in fetal lung cells exposed to adverse mechanical stretch
I. Copland (Toronto, Canada)

PP41 Single exposure to organic dust in pig barn induces recruitment of pulmonary intravascular macrophages and increases susceptibility for acute lung inflammation
B. Singh (Saskatoon, Canada)

PP42 Determination of a functional SNP in the promoter region of the RAGE gene
M. Zorzetto (Pavia, Italy)

- PP43 Why the lung is at risk of injury during sepsis**
P. Ward (Ann Arbor, United States of America)
- PP44 Aerosolized hyaluronan limits the progression of smoke-induced emphysema**
G. M. Turino (New York, United States of America)
- PP45 Tumour necrosis factor alpha and lymphotoxin alpha gene polymorphisms in Czech patients with sarcoidosis: association with Löfgren syndrome**
F. Mrazek (Olomovc, Czech Republic)
- PP46 Bronchial epithelial cells specifically activate inflammatory cytokine expression from neutrophils and peripheral blood mononuclear cells**
A. Kjerrström (Sandwich, United Kingdom)
- PP47 Genomic changes in cigarette smoke-induced emphysema in a mouse model: the importance of gene suppression**
Y. Hoshino (Montreal, Canada)
- PP48 Novel chemokine found in lungs of infants with severe RSV bronchiolitis**
P. McNamara (Liverpool, United Kingdom)
- PP49 Lung serine proteases stimulate epithelial ion transport: novel role in pulmonary fluid balance**
V. Swystun (Birmingham, United States of America)
- PP50 Pulmonary microcirculation in endotoxaemia is safeguarded by nitric oxide**
S. Chlopicki (Krakow, Poland)
- PP51 EGF receptor activation and trafficking is impaired in lung epithelial cells exposed to oxidative stress**
T. Goldkorn (Davis, United States of America)
- PP52 Assessment of an original proteoglycan, endocan, as a new target in sepsis and acute lung injury**
A. Scherpereel (Lille, France)
- PP53 Effect of anti-IL-9 antibody on newly produced cells in a mouse model of airway allergic inflammation**
B. Sitkauskiene (Kaunas, Lithuania)

13:00–14:30 Lunch, San Domenico Palace Hotel “Sala Specchi”

15:00-18:00 Discover Taormina

Departure from the San Domenico Palace Hotel for a Walking Tour of Taormina. Along the Corso Umberto, we will stop at the Cathedral Square, at Piazza St. Agostino and then at Piazza Vittorio Emanuele to admire the Palazzo Corvaja, originally built under the Arabs, where once was housed the Sicilian Parliament. The tour will continue with the visit of the Greek Roman Theatre, the second-largest in Sicily after the one in Siracusa. Is it Greek or Roman? This is a question that has always been open to debate among experts and critics.

We will finish the excursion with a get together to stimulate further scientific exchange.

Please make sure to have appropriate footwear and clothes for changing weather.

Free evening

All timings are subject to change.

The ERS and the local organizing company reserve the right to modify and/or cancel the above given programme should we encounter factors/reasons beyond our control.

Sunday, March 28, 2004

08:30 – 12:30

Strategies to modify inflammation

Chair: M. Spiteri (Stoke on Trent, United Kingdom)

08:30 Stem cell strategies to heal/replace damaged lung tissue

A. Trounson (Victoria, Australia)

09:10 Strategies to modify lung epithelial fluid transport

M. A. Matthay (San Francisco, USA)

09:50 Strategies to modify repair in acute and chronic lung injury

G. J. Laurent (London, United Kingdom)

10:30 Coffee break

10:50 OP53 Oral presentation: The $\alpha v \beta 3$ integrin interacts with transforming growth factor beta type II receptor in living cells to potentiate the proliferative and adhesive responses of human lung fibroblasts

A. Scaffidi (Perth, Australia)

11:10 OP54 Oral presentation: Anti-inflammatory role of pre-elafin in experimental emphysema

M. F. Janelle (Sainte-Foy, Canada)

11:30 OP55 Oral presentation: EGR-1 is involved in the regulation of fibroproliferation in sarcoidosis

M. H. Brutsche (Basle, Switzerland)

11:50 OP56 Oral presentation: Modulation of connective tissue growth factor (CTGF) expression by a novel antifibrotic agent, Simvastatin, mediated via a Rho signalling pathway

K. Watts (Stoke on Trent, United Kingdom)

12:10 Concluding remarks

12:30 Lunch and departure

Schedules of the various transfers will be posted in the Registration Area.