

MEETING GREMI 2013

THE UNDERESTIMATED ROLE OF EPITHELIUM IN INFLAMMATION

April, 12th, 2013 – Pasteur Institut, Paris, France

Organizing Committee : *N. Vergnolle, I. Couillin, N. Castex-Rizzi M. Chignard, L. Touqui, X. Norel, E. Letavernier, M. Si Tahar*

8:30-9:20

Welcome of the participants

9:20-9:30

Message by Michel Chignard, President of Gremi

Chairpersons :

Françoise Pons - Mustapha Si-Tahar

9:30-10:00

USING THE DROSOPHILA MODEL TO DISSECT GUT MUCOSA-BACTERIA INTERACTION

Julien ROYET (IBDML, France)

10:00-10:15

Cholinergic agonists modulate cytokine induced myosin light chain phosphorylation and barrier dysfunction in intestinal epithelium

Shobbit DHAWAN, Francisca W. Hilbers, Wouter J de Jonge (Academic Medical Center, Amsterdam, NL)

10:15-10:30

Impact of the epithelial Vanin-1 molecule in gut inflammation in mouse and man

Philippe NAQUET, Thomas Gensollen, Christophe Bourges, Pascal Rihet, Pierre Desreumaux, Paul Hofmann and Franck Galland (CIML, Marseille, France)

10:30-10:45

Metallothioneins as extracellular danger signals: a novel target to treat intestinal inflammation ?

Lindsey DEVISSCHER, Pieter Hindryckx, Kim Olievier, Harald Peeters, M. Lynes, C. Cuvelier, Martine De Vos and Debby Laukens (K12IE, Ghent, Belgium)

10:45-11:15

Coffee break – Posters Exhibition

Chairpersons : *Nathalie Vergnolle - Lhousseine Touqui*

11:15-11:45

EPITHELIAL REGULATION OF IMMUNE HOMEOSTASIS AND INFLAMMATION IN BARRIER SURFACE

Manolis PASPARAKIS (University of Cologne, Germany)

11:45-12:00

An elastolytic protease, which could participate to IBD damage, is expressed and secreted by human colonic epithelium

Céline DERAISON, Jean-Paul Motta, Anissa Edir, Corinne Rolland, Chrystelle Bonnart, Nathalie Vergnolle (Inserm, U1043, Toulouse, France)

12:00-12:15

Differential compartmentalization of IL -10 in mouse and human intestinal mucosa, suggesting possible species-specific regulatory networks to maintain gut homeostasis

Anne JARRY, Céline Bossard, Chantal Bou-Hanna, Stéphane Bézieau, Christian L. Laboisse (EA4273 Biometadys, Nantes, France)

12:15-12:45

MUCUS, MUCINS, EPITHELIUM AND INFLAMMATION

Gunnar HANSSON (University of Gothenburg, Sweden)

12:45-3:00

Lunch - Posters – Exhibition

Chairpersons : *Nathalie Castex-Rizzi - Emmanuel Letavernier*

3:00-3:30

THE OUTSIDE-INSIDE VIEW OF SKIN INFLAMMATION

Audrey GUENICHE (L'oreal Research and Innovation, France)

3:30-3:45

Synaptic contact mediated by HIV-1 envelope glycoproteins and integrins triggers TSLP secretion by human primary foreskin keratinocytes via the NF- κ B pathway

Zhicheng ZHOU, Anne-Sophie Drillet-Dangeard, Yonatan Ganor, Morgane Bomsel (Inserm, U1016, Paris, France)

3:45-4:00

Unsuspected protective role of gammaC chain expressed by non-immune cells in the model of anti-GBM glomerulonephritis

Dominique CATHELIN, Yosu Luqué, Sophie Vandermeersch, Julie Sohier, Alexandre Hertig, Jean-Christophe Bories, James di Santo, Eric Rondeau and Laurent Mesnard (Inserm UMR S 702, Paris, France)

4:00-4:15

HSV-2 regulates inflammatory response in the vaginal epithelium via the Fas/FasL pathway

Malgorzata KRZYZOWSKA, Piotr Orłowski, Wanda Stankiewicz, Francesca Chiodi (Military Institute of Hygiene and Epidemiology, Warsaw, Poland)

4:15-4:45

Coffee break – Posters Exhibition

Chairpersons : *Xavier Norel – Vincent Lagente*

4:45-5:15

THE AIRWAY EPITHELIUM IN ASTHMA

Hamida HAMMAD (Ghent University, Belgium)

5:15-5:30

Phenotypic alterations of bronchial epithelium in chronic obstructive pulmonary disease

N. FERHANI, J. Brard, M. Grandsaigne, C. Taille, A. Fabre, S. Benadda, C. Danel, Y.Castier, M. Aubier, M. Pretolani (Inserm UMR700, Paris, France)

5:30-5:45

Neutrophil elastase (NE) and cigarette smoke extract (CSE) combined with low concentration of lipopolysaccharide (LPS) induced cytokine release from epithelial cells through JAK/STAT and ERK1/2 signaling pathways

Tatiana VICTONI, Florence Gleonnec, Lucie Beauvais, Manuella Lanzetti, Samuel S. Valença, Luis Cristovão Porto, Elisabeth Boichot, Vincent Lagente (Inserm UMR991, Rennes, France)

5:45-6:00

IL-33/ST2 axis regulates airway inflammation to nanoparticles

Ludivine BARON, Noëlline Guillou, Aurélie Gombault, Bérengère Villeret, François Erard, Bernhard Ryffel, Isabelle Couillin (INEM-UMR7355, Orléans, France)

6:00-6:15

Mechanisms of P. aeruginosa-induced secretory group IIA phospholipase A2 expression in cystic fibrosis pulmonary epithelial cells

Erwan PERNET, Clément Bellanger, Michel Chignard, Lhousseine Touqui, Yongzheng Wu (Institut Pasteur, Paris, France)

6:15-6:20

Closing Remarks