



Scientific Group : **GIREM**

Day : **February 1 2024**

### **Session 1**

**Moderators:** Werend Boesmans (Hasselt University), Samuel Van Remoortel (KU Leuven)

9:00 **Invited Lecture: Novel genetic causes for chronic intestinal pseudo-obstruction.**  
Elena Bonora (University of Bologna)

9:45 **184** B01 **A dual field of view multiphoton microscope to investigate connections and connectivity in the enteric nervous system.**  
Y. KAZWINY (1), C. FUNG (1), T. MARTENS (1), W. BOESMANS (2), P. VANDEN BERGHE (1) / [1] KUL - University of Leuven, Leuven, Belgium, Lab. for Enteric NeuroScience (LENS), TARGID TARGID, [2] Hasselt University, Hasselt, Belgium, BIOMED

10:00 **82** B02 **Study on the role of intestinal muscularis macrophages in diabetic neurodegeneration.**  
M. VANDEPUT (1), M. CHAVERO-PIERES (1), N. STAKENBORG (1), Z. WANG (1), I. APPELTANS (1), M. FRANCESCA VIOLA (1), M. DELFINI (1), G. BOECKSTAENS (1) / [1] Translational Research Center for Gastrointestinal Disorders (TARGID), KULeuven, Leuven, Belgium, Chronic diseases and Metabolism (ChroMeta)

10:15 **140** B03 **Mucosal enteric glia colonize the lamina propria independent of vagal innervation.**  
G. SANCHINI (1), C. CIRILLO (2), H. ENOMOTO (3), W. BOESMANS (1) / [1] Hasselt University, Hasselt, Belgium, BIOMED, [2] INSERM, France, Toulouse NeuroImaging Centre (ToNIC – UMR1214 Inserm/UT3), [3] Graduate School of Medicine, Kobe University, Kobe, Japan, Department of Physiology and Cell Biology

10:30-11:00 Coffee Break

## Session 2

**Moderators:** Heiko De Schepper (University of Antwerp), Ricard Farré (KU Leuven)

- 11:00 **43**    B04    **Role of airborne and food antigen cross-reactivity in the association between allergic airway pathology and irritable bowel syndrome.**  
M. CUENDE ESTÉVEZ (1), S. CUYPERS (2), W. BACKAERT (2), H. HUSSEIN (1), I. APPELTANS (1), K. BELLENS (1), J. VANOIRBEEK (3), L. VAN GERVEN (2), G. BOECKXSTAENS (1) / [1] KUL – University of Leuven, Leuven, Belgium, Translational Research in Gastrointestinal Disorders (TARGID), [2] KUL - University of Leuven, Leuven, Belgium, Microbiology, Immunology and Transplantation, [3] KUL - University of Leuven, Leuven, Belgium, Respiratory Diseases and Thoracic Surgery (BREATHE)
- 11:15 **139**    B05    **Intestinal permeability in irritable bowel syndrome (IBS) and IBS comorbid: results from DISCOVERIE project.**  
A. RUSTICHELLI (1), S. RINCKHOUT (1), K. VERBEKE (1), C. ALONSO COTONER (2), J. SANTOS (2), R. FARRÉ MARTI (1), GROUP DISCOVERIE (3) / [1] KUL - University of Leuven, Leuven, Belgium, Translational Research Centre for Gastrointestinal Disorders (TARGID), [2] Fundació Hospital Universitari Vall d'Hebron - Institut de Recerca, Barcelona, Spain, Gastroenterology, [3] Horizon 2020, Spain, 848228
- 11:30 **97**    B06    **Treatment with the histamine 1 receptor antagonist ebastine for non-constipated irritable bowel syndrome: a double-blind randomized placebo-controlled trial.**  
F. PIA (1), L. DECRAECKER (1), D. DE LOOZE (2), D. HIRSCH (3), H. DE SCHEPPER (4), J. ARTS (5), P. CAENEPEEL (6), A. BREDENOORD (7), T. VANUYTSEL (1), A. BELMANS (8), G. BOECKXSTAENS (1) / [1] KUL - University of Leuven, Leuven, Belgium, Translational Research in Gastrointestinal Disorders, [2] Ghent University Hospital, Ghent, Belgium, Department of Gastroenterology, [3] Pathology-DNA Rijnstate Hospital Arnhem, Arnhem, Netherlands (the), Department of Gastroenterology and Hepatology, [4] Antwerp University Hospital, Edegem, Belgium, Department of Gastroenterology and Hepatology, [5] AZ Sint-Lucas Brugge, Assebroek/ Brugge, Belgium, Department of Gastroenterology, [6] Ziekenhuis Oost Limburg (ZOL), Genk, Belgium, Department of Gastroenterology and Hepatology, [7] Amsterdam UMC, Amsterdam, Netherlands (the), Department of Gastroenterology and Hepatology, [8] KUL - University of Leuven, Leuven, Belgium, Interuniversity Centre for Biostatistics and Statistical Bioinformatics
- 11:45 **150**    B07    **Psychological symptoms but not inflammatory parameters differentiate between functional dyspepsia with or without overlapping irritable bowel syndrome and gastroesophageal reflux disease.**  
M. CEULEMANS (1), P. HUYGHE (1), L. WAUTERS (1), L. VAN OUDENHOVE (1), J. TACK (1), T. VANUYTSEL (1) / [1] Translational

Research Center for Gastrointestinal Disorders (TARGID), KULeuven, Leuven, Belgium, Chrometa

12:00 **81** B08 **Study evaluating the relationship between the microbiome, proteolytic activity, bacterial superantigens and clinical symptoms in patients with irritable bowel syndrome.**  
R. QUAN (1), H. HUSSEIN (1), M. CUENDE-ESTÉVEZ (1), L. DECRAECKER (1), G. BOECKSTAENS (1) / [1] Translational Research Center for Gastrointestinal Disorders (TARGID), KULeuven, Leuven, Belgium, Department of Chronic Diseases, Metabolism and Aging

12:15 **163** B09 **Monocyte and macrophage heterogeneity in the human gut in health and disease.**  
N. STAKENBORG (1), M. DELFINI (1), Y. WU (2), E. MODAVE (1), J. VAN HERCK (2), K. VANDERYCKEN (2), A. WOLTHUIS (3), A. D'HOORE (3), A.SIFRIM (2), T. VOET (2), G. BOECKSTAENS (1) / [1] KUL - University of Leuven, Leuven, Belgium, TARGID, [2] KUL - University of Leuven, Leuven, Belgium, Menselijke Erfelijkheid, [3] University Hospitals Leuven (UZLeuven), Leuven, Belgium, Abdominal Surgery

12:30-14:00 Lunch break

### Session 3

**Moderators:** Annemieke Smet (University of Antwerp), Tim Vanuytsel (KU Leuven)

14:00 **Invited Lecture: Goblet cells, mucus and mucosal defence.**  
George Birchenough (University of Gothenburg, Sweden)

14:45 **93** B10 **An anti-fibrotic role for eosinophils in a DSS colitis RAG-/- and an in vitro co-culture model.**  
I.JACOBS (1), S. DELEU (2), J. CREMER (3), E. DILISSEN (3), G. DE HERTOOGH (4), T. MARTENS (5), P. VANDEN BERGHE (5), S. VERMEIRE (6), C. BREYNAERT (7), T. VANUYTSEL (6), B. VERSTOCKT (6) / [1] KUL - University of Leuven, Leuven, Belgium, Department microbiology, immunology and transplantation, [2] KUL – University of Leuven, Leuven, Belgium, Department of Chronic Diseases and Metabolism, Translational Research Center for Gastrointestinal Disorders (TARGID), [3] KUL - University of Leuven, Leuven, Belgium, Department of Microbiology, Immunology and Transplantation, [4] University Hospitals Leuven (UZLeuven), Leuven, Belgium, Department of Imaging and Pathology, Translational Cell & Tissue Research, [5] KUL - University of Leuven, Leuven, Belgium, Cell and tissue Imaging Core, [6] University Hospitals Leuven (UZLeuven), Leuven, Belgium, Department of Gastroenterology and Hepatology, [7] University Hospitals Leuven (UZLeuven), Leuven, Belgium, Department of General Internal Medicine

15:00 192 B11 **The role of MUC13 in gastric cancer cell death inhibition and dysbiosis.**  
B. OOSTERLINCK (1), W. ARRAS (1), J. G. DE MAN (1),  
B. Y. DE WINTER (1), A. SMET (1) / [1] University of Antwerp, Antwerp, Belgium, LEMP

15:15 70 B12 **Characterization of the impact of NKCC1 in colorectal Carcinogenesis.**  
P. ADAM (1), C. SALÉE (2), M. STEPNIAK (3), J. LOLY (4),  
S. VIEAUJEAN (4), S. KROPP (4), C. REENAERS (5), F. FONZÉ (6),  
C. MASSOT (6), N. BLÉTARD (7), C. COIMBRA MARQUES (5),  
E. DECKER (5), P. DELVENNE (7), E. LOUIS (4), M. MEUWIS (8) / [1] University of Liege, Liège, Belgium, Translational Gastroenterology Laboratory, [2] ULiège, , Belgium, Laboratory of Translational Gastroenterology, GIGA institute , [3] ULiège, , Belgium, Laboratory of Translational Gastroenterology, GIGA institute Uliège, [4] CHU de Liège, Liège, Belgium, Hepato-Gastroenterology and Digestive Oncology, [5] CHU de Liège, Liège, Belgium, Abdominal Surgery Department, [6] ULiège, , Belgium, Laboratory of Translational Gastroenterology, [7] CHU de Liège, Liège, Belgium, Pathological Anatomy and Cytology, [8] CHU de Liège, Liège, Belgium, Laboratory of Translational Gastroenterology

15:30-16:00 Coffee Break

#### Session 4

**Moderators:** Gianluca Matteoli (KU Leuven), Hana Sahinbegovic (KU Leuven)

16:00 178 B13 **Study evaluating the role of blood-vessel associated macrophages in the gut-vascular barrier**  
N. PAJK (1), M. LOGIST (1), M. VIOLA (1), N. STAKENBORG (1),  
I. APPELTANS (1), Z. WANG (1), G. BOECKXSTAENS (1) /  
[1] Translational Research Center for Gastrointestinal Disorders (TARGID), KU Leuven, Leuven, Belgium, Department of Chronic Diseases, Metabolism and Ageing

16:15 167 B14 **Pseudo-allergic, Mrgprb2-dependent mast cell activation plays a crucial role in acute colitis**  
L. LAMBEETS (1), S. VAN REMOORTEL (2), J. DE MAN (3), B. DE WINTER (3), S. MARTINEZ IBIZA (1), J. TIMMERMANS (1) / [1] Universiteit Antwerpen / Antwerp University Hospital, WILRIJK (Antwerpen), Belgium, Laboratory of Cell Biology & Histology (CBH), [2] KUL - University of Leuven, Leuven, Belgium, Translational Research Center for Gastrointestinal Disorders (TARGID), [3] Universiteit Antwerpen / Antwerp University Hospital, WILRIJK (Antwerpen), Belgium, Translational Research in Immunology and Inflammation

- 16:30 **86** B15 **Unveiling the Relationship Between Nerve-Associated Macrophages and nerves across different organs**  
Z. WANG (1), N. STAKENBORG (1), M. VIOLA (1),  
S. VAN REMOORTEL (1), R. QUAN (1), Y. XUE (1), I. APPELTANS (1),  
G. BOECKXSTAENS (1) / [1] Translational Research Center for  
Gastrointestinal Disorders (TARGID), KULeuven, Leuven, Belgium,  
Department of Chronic Diseases, Metabolism and Ageing
- 16:45 **53** B16 **Intermittent fasting reinforces rhythmic activation of intestinal circadian clock genes and the gut transcriptome during chronodisruption**  
H. LENG (1), T. THIJIS (1), L. DESMET (1), M. FARHADIPOUR (1),  
I. DEPOORTERE (1) / [1] Translational Research Center for  
Gastrointestinal Disorders (TARGID), KULeuven, Leuven, Belgium, gut  
peptide research
- 17:00 **67** B17 **Single cell transcriptomics reveal mast cell heterogeneity in the human gut in health and IBS**  
H. HUSSEIN (1), E. MODAVE (1), S. VAN REMOORTEL (1), R. QUAN (1),  
M. DELFINI (2), G. BOECKXSTAENS (1) / [1] KUL – University of Leuven,  
Leuven, Belgium, TARGID, [2] KUL - University of Leuven, Leuven,  
Belgium, Department of Oncology
- 17:15 End of the session  
Best abstract award