



2nd GGIG meeting: 'Intestinal host-microbiota interactions controlling health and disease'

May 18-19, 2017 Ghent, Belgium

FINAL PROGRAM

MAY 18TH 2017

Session 1 : Intestinal host-microbe interactions in intestinal immunity

- 09:00 – 09:30 Registration – Coffee
- 09:30 – 10:00 **Dr. Stephanie Ganal/ Dr. Mercedes Gomez** (University of Bern, Bern, Switzerland)
Role of maternal microbiota in imprinting of the neonatal immune system
- 10:00 - 10:30 **Dr. Robert Häslér** (University Hospital Schleswig Holstein, Kiel, Germany)
Uncoupling of mucosal gene regulation, mRNA splicing and adherent microbiota signatures in inflammatory bowel disease
- 10:30 – 11:00 **Dr. Andy Wullaert** (Ghent University, Ghent, Belgium)
Regulation of the gut microbiota composition by inflammasomes
- 11:00 – 11:30 **Dr. Bruno Lamas** (Sorbonne University, Paris, France)
CARD9 impacts colitis by altering gut microbiota metabolism of tryptophan into aryl hydrocarbon receptor ligands
- 11:30 – 12:00 **Dr. Johanna Pott** (University of Oxford, Oxford, UK)
Cell-type specific role of autophagy in colitis
- 12:00 – 13:00 Lunch Break

Session 2: Intestinal microbiota regulation and effects on metabolism

- 13:00 – 13:30 **Dr. Jessica Thompson** (Gulbenkian, Lissabon, Portugal)
Chemical conversations in the gut microbiota
- 13:30 – 14:00 **Dr. Tom Vandewiele** (Ghent University, Ghent, Belgium)
Dietary emulsifiers increase the abundance of flagellated microorganisms in human derived microbiota thereby increasing colitis risk in humanized gnotobiotic mice
- 14:00 – 14:30 **Dr. Björn Schröder** (University of Gothenburg, Gothenburg, Sweden)
Microbes, Mucus, Metabolism: How diet affects the mucosal barrier
- 14:30 – 15:00 Coffee Break

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| 15:00 – 15:30 | Dr. Mahesh Desai (Luxembourg Institute of Health, Luxembourg) <i>Dietary fiber, the gut microbiota and the colonic mucus barrier: implications for health and disease</i> |
| 15:30 – 16:00 | Dr. Sandrine Brugiroux (Max-von-Pettenkofer Institute, Munich, Germany) <i>Genome-guided design of a defined mouse microbiota that confers colonization resistance against Salmonella enterica serovar Typhimurium</i> |
| 16:00 – 16:30 | Dr. Claire Chevalier (University of Geneva, Geneva, Switzerland) <i>Gut Microbiota Orchestrates Energy Homeostasis during Cold</i> |
| 16:30 – 18:30 | Reception |

MAY 19TH 2017

Session 3: New cell types involved in intestinal host-microbe interactions

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| 09:00 – 09:30 | Dr. George Birchenough (University of Gothenburg, Gothenburg, Sweden) <i>Sentinel goblet cells: goblet cell-mediated colonic defence beyond mucus layer formation</i> |
| 09:30 – 10:00 | Dr. Philippe Jay (University of Montpellier, Montpellier, France) <i>Tuft cells : epithelial sentinels linking luminal danger to immune responses</i> |
| 10:00 – 10:30 | Dr. Gianluca Matteoli (KULeuven, Leuven, Belgium) <i>The Enteric Nervous System as novel modulator of Intestinal Immune Homeostasis</i> |
| 10:30 – 11:00 | Dr. Sales Ibiza (Instituto di Medicina Molecular, Lisbon, Portugal) <i>Glial-cell-derived neuroregulators control type 3 innate lymphoid cells and gut defence</i> |
| 11:00- 11:30 | Coffee Break |
| 11:30 – 12:45 | KEYNOTE LECTURE: Dr. Adrian Hayday (King's College, London, UK) <i>Not simply superficial: how epithelial cells control immunity</i> |
| 12:45 – 13:45 | Lunch Break |

Session 4: Intestinal host-microbe interactions in cancer and extra-intestinal disorders

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| 13:45 – 14:15 | Drs. Karolina Slowicka (Ghent University, Belgium) <i>EMT regulators in colorectal cancer</i> |
| 14:15 – 14:45 | Dr. Eva Gollwitzer (University of Lausanne, Epalinges, Switzerland) <i>The gut-lung axis in respiratory disease</i> |
| 14:45 – 15:15 | Dr. Heleen Cypers (Ghent University, Ghent, Belgium) <i>The Gut-joint axis in spondylarthropathy</i> |
| 15:15 | Closing words |