

Basic Science Course

Basic and translational research in motility and neurogastroenterology

June 27-29, 2018

TARGID laboratory, Clinical Motility Unit and ACRONIM human research
facility, Leuven, Belgium

Course directors

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Programme and faculty are preliminary and subject to change.

WEDNESDAY, June 27, 2018

10:00 – 10:50

Registration**Lectures****Introduction**

10:50 – 11:00: Welcome and opening

11:00 - 11:30: Functional and motility disorders of the gastrointestinal tract: clinical and research challenges.

Motility disorders and motility measurements

11:30 -12:00: Assessment of gastrointestinal motility in humans.

12:00 – 12:30: Assessment of gastrointestinal motility in animals in vitro and in vivo; animal models of altered motility.

12:30 – 13:00: Neural control of motility in animals and humans

13:00 – 14:00: Lunch break

Control of food intake

14:00 – 14:30: Control of hunger, nutrient tolerance and food intake in animals and humans.

Mucosal integrity, stress, luminal factors and „low-grade“ inflammation

14:30 – 15:00: Assessment of mucosal integrity, stress responses, luminal responses and „low-grade“ inflammation in humans.

15:00 – 15:30: Assessment of mucosal integrity, stress responses, luminal responses and „low-grade“ inflammation in vitro and in animal models.

15:30 – 16:00: Coffee break

Visceral hypersensitivity

16:00 – 16:30: Assessment of visceral sensitivity in humans; visceral hypersensitivity disorders.

16:30 – 17:00: Assessment of visceral sensitivity in animals; animal models of visceral hypersensitivity.

17:00 – 17:30: Use of brain imaging to assess visceral sensitivity and food reward.

Wrap-up and end of the day

17:30-18:00: practical arrangements for the next day

19:30: Dinner

THURSDAY, June 28, 2018**Parallel lectures**

Participants that chose a block from the “Basic Track” attend lecture B,; participants that chose a block from the “Human Track” will attend lecture A.

08:30 – 09:00 How to organise motility studies

Lecture A: How to set up neurogastroenterology and motility studies in healthy subjects

Lecture B: How to set up basic neurogastroenterology and motility studies: choice of animal models and access to human samples

Parallel Demonstrations & Hands-on sessions

Once selected, participants must sign up for a total of 2 blocks (hands-on sessions); 1 block to attend on Thursday and 1 block to attend on Friday. Please note that these blocks (hands-on sessions) have limited capacity and slots will be allocated to participants on a first come, first served basis.

Interrupted for coffee and lunch

09:00 – 15:45**“Basic Track”****Block 1: TARGID**

Animal gastric emptying; (Motility in organ bath); Muscle strip contractility; Neural imaging

Block 2: TARGID

Mucosal integrity studies; Peptide release and assays

Block 3: TARGID

Animal visceral sensitivity testing; (Afferent nerve recording)

Block 4: TARGID

(Vagus nerve stimulation); Mucosal immunology techniques

09:00 – 15:45

“Human Track”

Block 5: MOTILITY UNIT

Multimodal sensitivity testing; Esophageal motility studies

Block 6: MOTILITY UNIT

Small bowel manometry, food response, peptide assays; Colonic manometry

Block 7: ACRONIM / TARGID

Intragastric pressure/gastric barostat; Human biopsies and luminal aspiration

Block 8: ACRONIM

Nutrient tolerance studies; Brain imaging

15:45 – 16:00: Coffee break

16:00 – 17:00: Presentation of 4 selected abstracts

18:30 Joint dinner

FRIDAY, June 29, 2018

Parallel lectures

Participants that chose a block from the “Basic Track” attend lecture B.; participants that chose a block from the “Human Track” will attend lecture A.

08:25 – 08:55 How to build a career in neurogastroenterology and motility

Lecture A: How to build a career in clinical research in neurogastroenterology & motility

Lecture B: How to build a career in basic research in neurogastroenterology & motility

Parallel Demonstrations & Hands-on sessions

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Intragastric pressure/gastric barostat; Human biopsies and luminal aspiration

Block 8: ACRONIM

Nutrient tolerance studies; Brain imaging

15:45-16:00 Closure and farewell with coffee

Organiser

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