

# Friday 17th May, afternoon

# Demystifying the science behind targeted treatments and immunotherapies for bowel cancer

13.00	Registration
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13.00	INCEISTI GLIOTI

# 13.30 Biology and genetics of bowel cancer

- Cell of origin and mechanisms of development
- The tumour microenvironment
- Key mutations and defective pathways and proteins in bowel cancer cells
- Explaining the relationship between mismatch repair deficiency (MMRd), microsatellite instability (MSI) and CPG-island methylator phenotype (CIMP)
- Recent classification systems and what they mean

# 14.10 Questions and short break

### 14.25 Targeting the EGFR in bowel cancer

- Refresher of growth factor receptor signalling pathways and the normal function of EGFR (epidermal growth factor receptor)
- Mechanisms of action of EGFR-targeted antibodies
- Who benefits from EGFR-targeted antibodies?
- KRAS mutation testing and left vs. right bowel cancers

#### 15.00 Coffee break

# 15.20 Expanding the range of targeted treatment approaches for people with bowel cancer

- B-Raf inhibitor combinations for people with BRAF-mutated tumours
- Targeting HER2, mutant Ras and Trk proteins
- Should we do more testing? The case for and against extensive mutation testing to select treatments for people with bowel cancer

### 15.50 Questions and short break

## 16.00 Progress in immunotherapy for bowel cancer

- Immunotherapy for people with MMR-deficient/MSI-H bowel cancer
- Immunotherapy for people with MMR-proficient bowel cancer

#### 16.30 Close