

## **Action: Precision-BTC Network working group 5**

Chair: Professor Jesper B Andersen

Virtual meeting no.2 (meeting minutes)

Date: January 13<sup>th</sup>, 2025

Time: 4.30 CET

Participants: 25-30

The second virtual working group meeting as preparation to the Cost action management meeting in Lisbon, Portugal on January 20<sup>th</sup>, 2025.

Unfortunately, we only had 3 tasks on our agenda.

### **1) ENSCCA-Incyte molecular study (by Prof. Jesper B Andersen)**

A total of 382 samples have been validate and send out for TempoSeq. This cohort is divided into 182 resected samples (Netherlands, Italy, Spain, Germany) and 200 advanced cases (biopsies from Denmark).

We look forward giving updates on the ENSCCA-Incyte data analysis soon.

### **2) Bibliometric analysis on BTC (by Dr. Angela Ammirabile)**

The rationale of the study is to understand the changing interest in BTC, treading research or clinical focus areas from 1970 to 2025.

Suggestions:

- Trending research and/or clinical topics in specific time spans (decades?)
- Comparison of trending topics in BTC with oncology in general
- Publication ratio in parts of the world – changing?
- any discoveries (research or clinical achievements) causing outliers

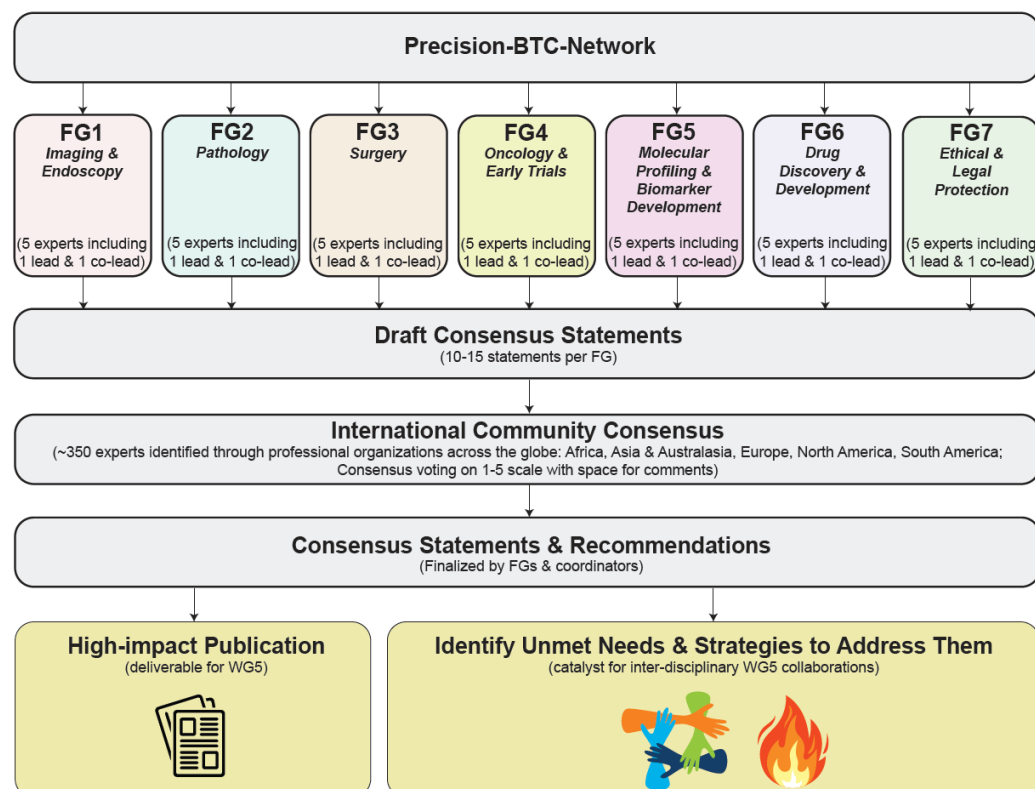
### **3) AI-DELPHI: A consensus statement from the Precision-BTC Network (by Dr. Colm J. O'Rourke)**

Jesper: We have been toying with the idea that we should write a review/opinion piece about AI use and possible applications of AI in BTC research and clinics. However, relatively little is do in the space of AI/BTC and many reviews have already been published. Therefore, utilizing the breath of the precision-BTC-Network community and that WG5/AI is a cross-disciplinary working group, we have changed the tactics to an AI-Delphi.

The AI- Delphi will cover these focus groups (FG):

- **Imaging and Endoscopy** (FG1; topics will include the utility of AI in screening, image interpretation, endoscopic automation, and more)
- **Pathology** (FG2; topics will include the utility of AI in automated diagnostics, differential diagnostics, prediction of molecular profiles from H&E images, and more)

- **Surgery** (FG3; topics will include the utility of AI in pre-operative planning, intra-operative guidance, and more)
  - **Oncology and Early Trials** (FG4; topics will include the utility of AI in monitoring clinical measurements, decision support, matching patients to trials, and more)
  - **Molecular Profiling and Biomarker Development** (FG5; topics will include the utility of AI in interpreting high-dimensional omics data, biomarker development, digital twin identification, and more)
  - **Drug Discovery and Development** (FG6; topics will include the utility of AI in target protein modelling, drug design, pharmacodynamics, and more)
  - **Ethical and Legal Protection** (FG7; topics will include the implications of AI for data privacy, personal data usage by researchers, national and international regulations, and more)
- **Journal (preinjury):** Nature Reviews Gastroenterology and Hepatology (provisionally accepted to see the final manuscript in the Fall 2025).
  - **Invitations to FG leader/co-leaders accepted.** Members of FGs also getting in place.
  - **We will need everybody in any of these fields to participate in the Delphi surveys.**



### Focus groups:

- Draft 8-10 key questions (how AI will/is driving/affecting etc your field)
- Draft consensus statement (500 word connecting the questions raised in the Delphi and answers given by the community)

The process for the next 6 months to achieve this key deliverable for WG5 and the full COST action.

- Jan 2025: Confirmation of expert panel members
- Feb 2025: Expert panel meeting & draft consensus statements
- March 2025: Internal review of draft consensus statements
- April 2025: Survey of statements by international community
- May 2025: Editing & summarizing of final consensus statements
- June-Aug 2025: Manuscript preparation & co-author review