



## Questions and Answers from the CRACK IT Challenge 44 SensOoChip Challenge Launch Webinar

Questions related to eligibility and the application process are covered in the [Guide for Participants](#).

### 1. Is the main purpose of the sensor system process control or organ monitoring?

Organ monitoring – specifically viability, function and the effects of compounds – are the priority of the Challenge, but applications that also include other aspects such as process control are welcome. The aim of the Challenge is to increase the sensitivity and robustness of OoC technology, while reducing burden on the user.

### 2. Regarding the multiparametric read-outs, what are the must-have / nice-to-have targets for the envisioned liver and/or heart model. What are the key parameters you want to monitor?

Applicants should propose the read-outs they will use to deliver the requirements of the Challenge. The Sponsors are happy to discuss approaches and whether they are in scope, and recommend a focus on those detailed on papers on the [liver](#) and [cardiovascular](#) systems from the [IQ Microphysiological Systems Affiliate](#).

### 3. Are you open to new technologies for the interrogation of OoC instead of the conventional cell media monitoring (based on typical sensor approaches)?

Yes, new approaches are in scope if it is clear how these will support the requirements and deliverables of the Challenge.

### 4. Is the Challenge only asking for liver-heart OoChip projects? What about other OoChips?

Only connected liver-heart chips are in scope for this Challenge.

## **5. How common (if at all) is it to currently conduct 'healthy' versus 'disease state' chip experiments**

It is increasingly of interest to the sector to advance disease understanding, biomarker identification and patient stratification.

It is encouraged that applicants discuss their proposed approach with the Challenge Sponsors. If you would like to be introduced to the Sponsors to discuss your proposed approach before the submission deadline please contact the CRACK IT team at [crackitenquiries@nc3rs.org.uk](mailto:crackitenquiries@nc3rs.org.uk)