



INFORM – Drug Sensitivity Profiling Pilot Phase

Background:

We are offering additional drug sensitivity profiling in our INFORM platform (INFORM amendment 5) on tumor cells from viable tissue.

We will test a library of 75 approved chemo- and targeted drugs *ex vivo* using an advanced drug sensitivity scoring algorithm.

You will receive a list of up to 10 drugs (and if possible also drug combinations), which ranked top in our screen.

First priority is the submission of sufficient **FF** tumor tissue **for sequencing:**

Minimal material requirements for sequencing and methylation analyses:

- 1 pea-sized snap frozen piece of tumor tissue (approx. **10x10x10mm**) or
- 1 large core biopsy or 5 stereotactic biopsies or

For international patients:

- thereof extracted nucleic acids (tumor cell content >40%): **T-DNA and T-RNA >1500ng each**

- ➔ **If there is only limited tumor tissue snap freeze in liquid nitrogen asap and send FF tissue/T-DNA & RNA for sequencing (mandatory)**
- ➔ **If there is sufficient tissue, additionally send viable tissue within 24h after surgery for drug sensitivity profiling (optional) as described on the next slide**





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Shipment of fresh VITAL tumor tissue

1. Register patient in MARVIN/INFORM and fill in registration form completely (register patient again if already previously analyzed).
2. Generate shipment form in Marvin by filling in all required information. A new shipment form for vital tissue is about to be programmed, in the meantime as a temporary solution please use the form for “Fresh frozen tumor tissue”.
3. Enter „CAUTION – VITAL TUMOR TISSUE!“ into the comment field.
4. Put fresh VITAL tumor tissue (viable) in falcon completely filled with serum free medium or 0.9% NaCl immediately after collection and do NOT freeze.
5. Send at room temperature (or cooled, not frozen) within 24h after surgery via overnight express with shipment form to the INFORM incoming lab.
6. Alert INFORM incoming lab by sending the tracking number and shipment company to inform_samples@dkfz.de.
7. The incoming lab is closed on weekends and German Public Holidays. Viable tissue receipt might still be possible, please clarify beforehand if and how.
8. Send Fresh frozen tumor material from same surgery and localization as well as non-malignant material (or thereof extracted nucleic acids) in separate dry ice shipment for molecular target identification as usual (mandatory).

Size matters!

Send at least one pea-sized piece of viable tumor tissue (ideally much more)!
 The likelihood of drug screening success directly correlates with sample size.

Which sample will be shipped	Fresh frozen tumor tissue (pea-sized/core biopsy/5 stereot. biopsies)
Sample was taken at <input data-bbox="1523 743 1556 768" type="text" value="?"/>	Current episode
Number of relapse/progression (0 = primary disease, 1 = 1st relapse, etc., 9 = progress of the primary disease, 99 = Information will be provided later) <input data-bbox="1391 833 1424 858" type="text" value="?"/>	3
Date of OP/sample taking	8/29/2018
Please enter as HH:MM	
Time interval before sample freezing [HH:MM]	00:00
Tissue Type	Metastasis
Origin or localisation	frontobasal
Sample will be/was sent to Heidelberg on	8/29/2018
Additional information about sample	CAUTION – VITAL TUMOR TISSUE
Contact person and address for this sample are the same as entered in "...Primary contact..." form above	Yes

