

FULLY ANNOTATED LUNG CANCER TISSUE MICROARRAYS

With biomarker panel & 3-years clinical outcome data

Tissues of highest quality collected under stringent technical and ethical guidelines

- Cold ischemia time below 30 minutes
- Tissues collected and maintained in a rigorously monitored environment
- FFPE slides reviewed by several board-certified pathologists
- IRB-approved biospecimen collection, from fully-consented donors

Population of non-small-cell lung carcinoma (NSCLC): 500 Caucasian patients

- 35% stage I: Tumor tissues and matched normal adjacent tissues
- 35% stage II: Tumor tissues and matched normal adjacent tissues
- 30% stages III-IV: Tumor tissues and synchronous matched normal adjacent tissues, of which 30 cases with primary tumor and **matched metastatic tissue**

Pathology data: H&E images, detailed pathology reports with histological subtypes and TNM staging

Clinical data: Medical follow-up data of a minimum 3 years including overall survival and metastatic recurrence

Biomarkers data (by IHC): EGFR mutation (del 19 and L858), BRAFV600E, ALK, ROS1, PD-L1, TTF1, p40, and neuroendocrine markers (CD56, INSM1)

Tissues microarrays: TMAs built-up in an ISO 15189 Accredited and ISO 9001 Certified pathology laboratory recognized for its TMA expertise.

Equipment used

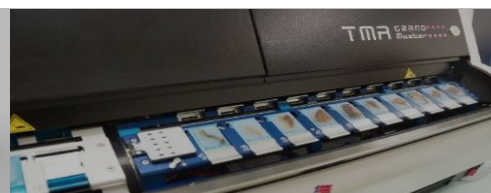
- *HAMAMATSU NanoZoomer 2.0HT:* A high speed, high sensitivity, and high-resolution slide scanner which can scan standard-size slides and has a slide loader that can handle up to 210 slides per batch.
- *3DHISTECH tissue microarrayer (TMA Grand Master):* An automated and sophisticated tissue microarrayer which allows for the precise selection, the extraction of specific regions of interest on the donor blocks and their insertion in recipient blocks. It creates high density and high-quality TMAs in a standardized way.

TMA Grand Mater options

| Core Diameter (mm) | Maximum number of cores/TMA blocks |
|--------------------|------------------------------------|
| 0.6 mm | 558 (0.6 mm) |
| 1 mm | 286 (1 mm) |
| 1.5 mm | 135 (1.5 mm) |
| 2 mm | 84 (2 mm) |

Our Proposal for TMA construction

- 3 cores of 0.6 mm in diameter per patient
- 50 patients per block
- Each block allows to cut 50 slides (4um)



TISSUE MICROARRAYS SERVICES - Do you need TMAs for other cancers? Contact us

Tissues can be provided either by the customer or by Trans-Hit Bio upon request as we can source through our worldwide network of academic biobanks partners the tissues needed according to your specifications (inclusion and exclusion criteria, biomarker and clinical associated data)