

Shanghai Outdo Biotech Co., Ltd., based on the platform of National Biobank Center, is the leading supplier of high quality, well characterized human tissue for research purpose and the related research services to drug discovery and biomarker scientists. We develop the biobank industry standard initiated by Chinese Medicinal Biotech Association, Biobank Branch. Our biobank owns more than 100,000 FFPE samples, 50,000 frozen samples and 5,000 biofluids samples. Based on the high quality and quantity biobank, Shanghai Outdo provides a variety of tissue products and specialty R&D services for global pharma/biotech companies and research institutes.

Tissue microarray (TMA)

- Up to 500 cores per array
- Rich clinical information for each case
- Available as full blocks, matched frozen samples and biofluids.
- Various types of high quality products for choose

We provide over 200 sorts of in-stock TMA products with detailed clinical information to our clients for scientific research use. Over 40 treatises have been published in Clin Cancer Res., JCO, Cancer, Oncologist and some other academic journals using our TMAs.

Our Services

■ Custom design TMA CMA XMA

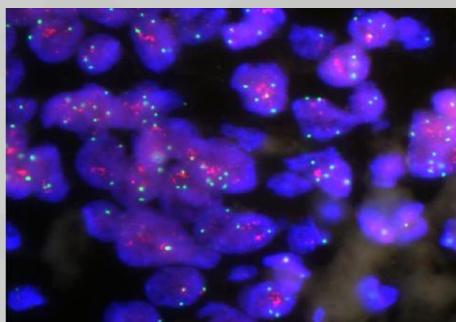
We provide custom designed TMAs with detailed clinical information according to what you need. Diverse core diameters are available (0.6mm, 1.0mm, 1.5mm, 2.0mm). We have advanced instruments for tissue processing automation, paraffin embedding, microtome, tissue arrayer, microscope and image acquisition. By now, we have provided our customer over 5,000 customized TMAs. We also have customized CMAs of about 1000 cell lines for leading pharmaceutical companies in the past 3 years.

■ Molecular pathology experiments (IHC, FISH, ISH, Microdissection et al)

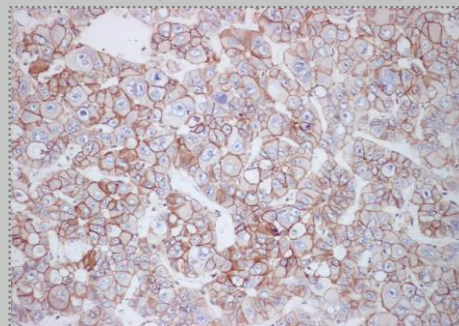
We have a well established pathology laboratory with three resident pathologists with extensive teaching and hospital experience. Our extensive pathology services include but not limited to the following.

We have extensive experiences with Immunohistochemistry (IHC), including: Assay optimization, imaging, Tissue Micro Array (TMA) immunohistochemistry, Manual and automated single slide staining, Ventana based IHC protocols.

We offer a full array of custom Fluorescence in situ hybridization (FISH) service from probe design, chromosome/cell preparation to expert result interpretation.



FISH



H&E

■ **DNA and RNA extraction**

We offer high throughput extraction services of high purity DNA and RNA for analysis from FFPEs, frozen samples and bloods.

■ **Biobank Services (sample collection, transfer, storage, and database support).**

We have extensive interactions with a large network of hospitals in China. We provide custom tissue procurement services where are exclusive to the customer. We procure different sorts of biosamples including FFPE, frozen, biopsy, serum, plasma, urine, and saliva samples etc for pharmaceutical companies. Besides, We also specialize in procuring three different types of tissue pairs for our customers, such as :1. FFPE, snap frozen tissue and biofluid pair from the same patient. 2. Tumor and adjacent non-tumor region pair. 3. Primary and metastasized tumor pair.

Our custom tissue procurement services are guaranteed with proper IRBs and Informed Patient Consent Forms in place with the institutions that are participating in tissue collection. We have shared our protocols with our global pharmaceutical customers and received their approval.

Our Strengths

- The largest and most standardized tissue bank in China.
- The largest cooperative networks of top hospitals in China with rich sources.
- State-of-art instruments and Standard Operating Procedures.
- Standard quality control system
- Professional pathologist group

Sales & Marketing

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