CARCINOTECH

Reinventing Cancer Research

Carcinotech is a MedTech company with expertise in manufacturing 3D printed living tumours using patient-derived biopsies, primary cells, immune cells and cancer stem cells. Carcinotech's advanced models provide a platform for rapid, ethical, and accurate drug screening, pre-clinical and personalised medicine testing.

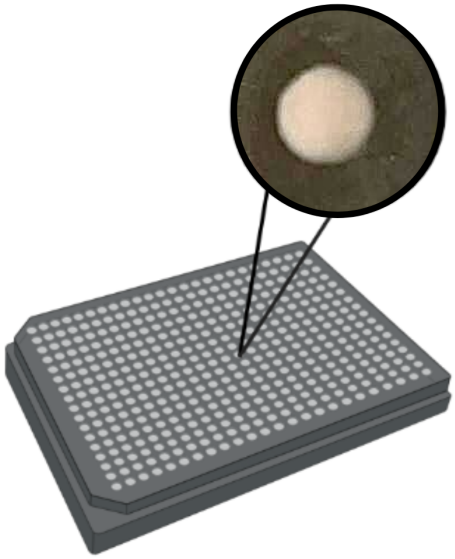
Working with global partners, leading pharma companies, surgeons, pathologists, clinicians, and industry-leaders, the goal is to accelerate drug screening and enable delivery of more effective cancer treatments to market. Access to Carcinotech's robotic and automated manufacturing allows for accelerated production, with models offering high-throughput capabilities.

Cryopreserved | Rapid Testing | Quality Controlled | Precision Medicine Testing | Customisable | Ethical

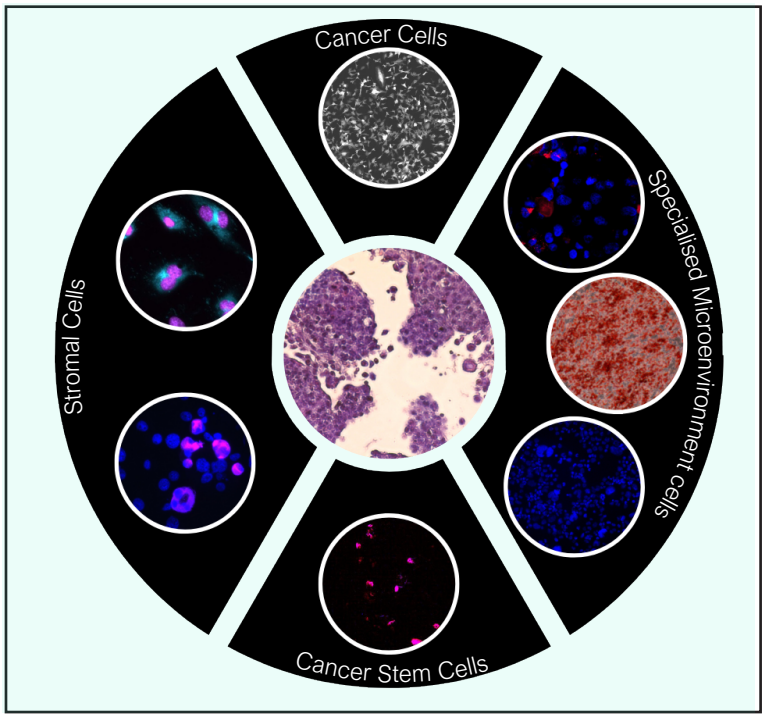
Our Carcino3D™ models offer a platform for in vitro high-throughput, accurate and rapid drug discovery and screening for novel, combinatorial and repurposed drugs. Our models can be used for drug efficacy, drug pathway, and toxicity testing. They are bioengineered to de-risk cancer drug testing and pre-clinical trials offering translational data with respect to cancer heterogeneity and microenvironments.

For each cancer model, Carcinotech offers three different formats to provide flexibility to suit your specific drug discovery and testing needs.

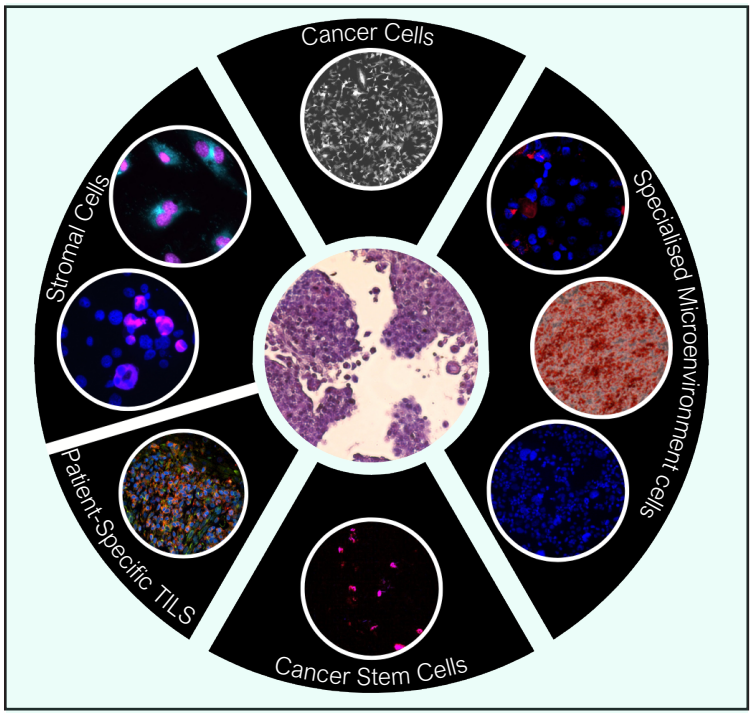
- 96 Well-plate
- 384 Well-plate
- Microfluidic devices



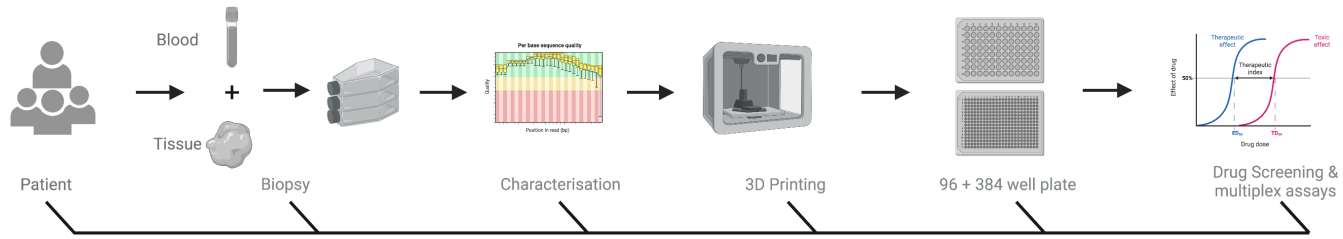
Carcino3D™ Basic Model



Carcino3D™ Immuno-oncology Model



How we work:



Carcinotech has developed models for the solid tumours mentioned below with characterised patient populations and mutational status. Carcinotech's diverse library of patient populations for the below cancers allows us to develop accurate 3D printed tumours for drug screening. As well as the five cancers, Carcinotech can offer models of any solid tumours depending on your drug testing needs. We can work with your project team to design a custom plan, work package and deliverables. We have the capacity to manufacture models with different patient populations, and with a heterogenous model, you can de-risk your research, have access to clinical models for your pre-clinical work, reduce costs and have better treatments going into clinical trials.

We work with your scientific team to understand your drug discovery and screening needs, which allows us to manufacture bespoke models to suit your projects. We offer some assay data as a quality control to each model we develop, ensuring robust, accurate and reliable results with reporting and analysis. Our 3D models self-form the tumour and are ready to test within 7 days of printing. These models can be manufactured to order, cryopreserved, and delivered assay-ready to your labs. Our team of 3D oncology experts can customise models according to your drug testing needs e.g. specific patient populations, mutation types, drug targets or treatments. Our models can be used for various assays mentioned below and we also offer these assays if you would like us to test your drug compounds.

Biological	Tumour Invasion/ Migration	Cell-Cell interaction	Cell-ECM interaction	Hypoxia Assessment
Drug Interaction	Drug Pathway Identification	DNA Damage & Cytotoxicity	Immunotherapy Testing	Viability & Apoptosis
Phenotypic	Immunohistochemistry	Immunofluorescence	Cytokine Analysis	Cell Painting
Genomic	RNA Sequencing	Whole Exome Sequencing	Whole Genome Sequencing	

All models and services are used for life science purpose only, not for use in diagnostic procedures

For discussions on our 3D printed tumour models and how our models can help in achieving rapid, accurate and reliable drug testing and pre-clinical results, please get in touch.

Carcinotech Ltd
Roslin Innovation Centre, Easter Bush Campus,
Edinburgh, EH25 9RG United Kingdom

Email: info@carcinotech.co.uk
Website: www.carcinotech.co.uk