



ZOOM ON: 2D/3D *EX vivo* Assays

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ZOOM

2D/3D *EX vivo* Assays: A PDX-based platform for *ex vivo* evaluating/screening of novel anti-cancer compounds



Oncomedics has developed the Oncogramme®, based on primary culture of cells from human tumor tissues. It creates a functional profile of a patient tumor's sensitivity and resistance to various drugs/drug candidates and combinations to provide physicians with the most accurate information for treating a patient's cancer.

Functional assays are also useful at preclinical stages of drug candidates' development. Oncomedics has thus developed OncoTRIP™ (Tumor Response Index & Profiling), a exclusive, centralized *ex vivo* platform for profiling of new agents on tumor-derived primary cultures.

We offer an array of testing services centered on cells from patient-derived tumor xenografts (PDXs). A unique collection of highly characterized PDX cancer models is integrated and available through Oncodesign's X-Mice® platform. Specific tumor profiles can therefore be selected for phenotypic exploration (2D/3D models; spheroids) with OncoTRIP™, which is ideally designed and positioned for:

- Profiling and qualification of drug candidates;
- Selection of relevant tumor models for further *in vivo* testing.

OncoTRIP™ is an enabling tool bridging advances made in primary cell culture with hard-to-collect, -grow and -investigate patient-derived solid tumor cells. We assist biotechnology and pharmaceutical companies to improve drug candidate validation and reduce time to market.

[More about](#)

NEWS



Oncodesign extends its capacities by acquiring the François Hyafil Research Center from GSK

Oncodesign, the coordinator of IMODI, extends its capacities by acquiring the François Hyafil Research Center from GSK, part of the Paris Saclay innovation cluster, including transfer of the team of highly qualified drug discovery staff located at the site (anticipated to be 57 employees). The capabilities within the facility include delivery of medicinal chemistry, biology, *in vivo* pharmacology and drug metabolism/pharmacokinetics capabilities with experience in many therapeutic areas.

[More about](#)

IMODI AROUND THE WORLD



IMODI around the world Discover last representations on main International events

- **Oncodesign presented an update** of well characterized models for immune-oncology treatments evaluation at the World Preclinical Congress (June 14-17, 2016, Boston, USA). >>>
- **ModulBio presented its software MBIOLIMS®** dedicated to the management of biobanks at the Europe Biobank Week (Sept 13-16, 2016, Vienna, Austria). >>>
- **Biofortis presented an update** of microbiome analyses in chemotherapy-treated PDX models at the 4th Sino-French School of Oncology (Oct 18-21, 2016, Wuhan, China). >>>

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FOCUS



**Oncomedics:
Personalizing the cancer treatments**

Oncomedics is a biotechnology company specialised in the individualisation of cancer treatments: it develops diagnosis tools to personalize anti-cancer cures, thereby considerably increasing their efficacy. The company was founded in 2006, and runs his own fully equipped laboratory and production unit in Limoges, France. It has established numerous strong collaborations with several clinical centers, academic laboratories and pharma or biotech companies, thanks to the IMODI French innovative project.

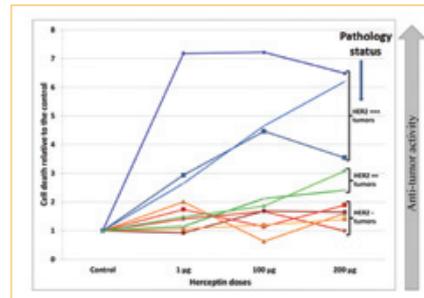
The Oncogramme® is a functional assay combining therapeutic and diagnostic approaches to predict the activity of a therapeutic molecule on a cancer patient's tumour. Drugs are actually tested on a tumour sample through an approach very similar to the antibiogram.

Responses of the patient's own cells obtained thanks to the Oncogramme® thus assist medical practitioners in personalizing treatments, by favouring drugs that demonstrate a high level of anti-cancer activity while avoiding inefficient drugs. Results obtained by Oncomedics on metastatic colorectal cancer indicate a minimal +38% increase (84% compared to 22-46% for currently employed consensus regimens) in response chances for first line treatment thanks to the Oncogramme®! The Oncogramme® for colorectal cancer, which is CE marked in the IVD MD category, is the first application available among the technologies of Oncomedics.

(Read full article on IMODI website)



Oncogramme® profile examples for 2 patients with stage IV colorectal cancer



Functional response of breast tumour cells in primary culture treated with Herceptin correlates with HER2/C-ERB B2 pathology status

More about



Model and treat the diversity of cancers

2013/01/01: Creation of the consortium

2013/09/01: Signature of the consortium agreement

2015/10/01: Signature of the 1st licence agreement

7 years: duration of the 1st R&D phase

150 Researchers

6 SMEs

4 pharmaceutical industries

8 Academic institutions

What about IMODI

www.imodi-cancer.org

The french IMODI (Innovative MODEls Initiative) consortium is dedicated to the development, the characterization and the commercialization of new preclinical models in oncology.

IMODI is a public-private consortium of 18 partners pooling their resources for the development of more valuable models of cancer in order to decrease the attrition rate of clinical development of novel anti-cancer agents.

Science and technology developments:



Developing PDX models and cellular assays



Modelling the human tumour microenvironment in mice



Studying the relationship between microbiota and cancer

IMODI's partners

