Cancer biOengineered Novel microTissues unrAveling Cancer plasTicity

HORIZON 2020

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Fact Sheet

Project Information		
CONTACT		Funded under
		EXCELLENT SCIENCE - Marie Skłodowska-Curie
Grant agreement ID: 893	129	Actions
		Total cost
DOI 10.3030/893129		€ 171 473,28
		EU contribution
Project terminated on 31 C	ctober 2022	€ 171 473,28
		Coordinated by
EC signature date		FONDAZIONE ISTITUTO
0 April 2020		ITALIANO DI TECNOLOGIA
Start date	End date	Italy
15 January 2021	14 January 2023	

Project description

A bioengineered model for investigating plasticity in triple negative breast cancer

Patients with triple negative breast cancer (TNBC) present a higher risk of recurrence and metastasis as existing chemotherapeutic strategies fail in nearly half of the cases. Recently, oncologists and researchers have started to focus their attention not only on cancer cells but also on their interactions with the microenvironment surrounding them. It is clear that the current methods of

investigation are not able to grasp the complexity of these interactions. In vitro models that faithfully recapitulate the disease are urgently needed for the development of novel treatments. To address this, scientists of the EU-funded CONTACT project will develop a 3D bioengineered TNBC in vitro model that combines stromal components along with cancer cells. This tool will be useful in studying the mechanisms of interaction between cancer cells and their microenvironment as well as the reprogramming events triggering drug-tolerance. Long term, by using these models as a sort of patient's avatar, it will become possible to establish patient-tailored treatment protocols based on combinatory therapy.

Fields of science (EuroSciVoc)

natural sciences > biological sciences > genetics

medical and health sciences > clinical medicine > oncology > breast cancer

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Keywords



Programme(s)

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions MAIN PROGRAMME H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility

Topic(s)

MSCA-IF-2019 - Individual Fellowships

Call for proposal

H2020-MSCA-IF-2019

See other projects for this call

Funding Scheme

MSCA-IF - Marie Skłodowska-Curie Individual Fellowships (IF)

Coordinator

FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA

Net EU contribution

€ 171 473,28

Total cost

€ 171 473,28

Address

VIA MOREGO 30 16163 Genova

Region

Nord-Ovest > Liguria > Genova

Activity type

Research Organisations

Links

Contact the organisation C Website C Participation in EU R&I programmes C HORIZON collaboration network

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European Union, 2025