

Brenus Pharma and InSphero have developed 3D tumor spheroids mimicking in vivo human colorectal cancer conditions

PPromising results show the impact of Brenus Pharma and InSphero's collaboration in advancing translational immunotherapy through scalable 3D tumor models.

SCHLIEREN, ZURICH, SWITZERLAND, June 19, 2025 /EINPresswire.com/ -- Brenus Pharma, a

We are proud to support Brenus with our cryopreserved 3D tumor models. This work illustrates how advanced in vitro systems can bring immunotherapies closer to clinical reality" Jan Lichtenberg, CEO of InSphero French biotech developing next-generation first-in-class immunotherapies, and InSphero, a Swiss leader in 3D cellbased assay technologies, presented promising data at the European Association for Cancer Research 2025 annual congress. These data confirm the use of 3D tumor spheroids for potency testing of STC-1010, Brenus' lead candidate for colorectal cancer.

Developed through a European-funded collaboration with InSphero, the project led to the creation of ready-to-use vitrified 3D colorectal cancer spheroids. Tumor spheroids were obtained with colorectal tumor cell lines co-cultured with colorectal fibroblasts. The vitrification method

preserves tumor morphology, stromal integrity, and viability after thawing of fresh tumor spheroids sample. This approach enables a more realistic evaluation of STC-1010's therapeutic potential, with a model that more closely mimics real in vivo tumor conditions.

Previous results demonstrated that STC-1010 antigens were efficiently taken up and presented by monocyte-derived dendritic cells (mMo-DCs), leading to the activation of CD8+ T cells. These T cells induce robust apoptosis in both 2D and 3D CRC models and trigger the release of antitumor cytokines such as IFNy and Granzyme B. These results confirm the translational relevance of 3D models and support the therapeutic potential of STC-1010 in targeting colorectal cancer.

"This collaboration with InSphero has enabled us to assess the highly representative and scalable 3D model into our SGC platform. It's a major step forward in our ability to assess potency and accelerate the development of STC-1010 and future candidates." Benoit Pinteur, CSO of Brenus Pharma.

"We are proud to support Brenus with our cryopreserved 3D tumor models. This work illustrates how advanced in vitro systems can bring immunotherapies closer to clinical reality", added Jan Lichtenberg, CEO of InSphero.

The collaboration was initiated in 2022 under the EUROSTARS program, co-financed by Bpifrance and Innosuisse, to support innovation in oncology through international R&D partnerships.

Rositsa Hadzhipetrova InSphero AG +41 44 515 04 90 email us here Visit us on social media: LinkedIn Instagram YouTube X

This press release can be viewed online at: https://www.einpresswire.com/article/823707530

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information. © 1995-2025 Newsmatics Inc. All Right Reserved.