

Press release



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INCITE: Improving immunotherapy through 3D printing and cell technology

We are proud to announce that we have been granted a prestigious Horizon 2020 FET Open project aimed at establishing new approaches for T cell therapies of cancers. The project **INCITE**, which stands for **Immune Niches for Cancer ImmunoTherapy Enhancement**, received 4million EUR from the EU Horizon 2020 Future & Emerging Technologies Open funding platform, now part of the EIC Pathfinder umbrella. FET Open supports the early stages of the science and technology research and innovation around new ideas towards radically new future technologies, in all scientific fields. The INCITE project aims to improve current approaches for cancer immunotherapy by generating more robust and active memory phenotypes of anti-cancer T cells, such as CAR-T or TCR- transgenic T cells. We will achieve this through construction of a microenvironment, in the form of an active immune niche that keeps anti-cancer T cells strong, vigilant and persistent both during preparation of the cells outside the body, and after being given to patients. We will describe and recapitulate the microenvironment of the niches that gives the most potent cells for the task of eradicating the cancer.

INCITE is a multidisciplinary project that combines competences in microfluidic modelling and 3D printing, basic molecular cell immunology, tissue engineering, bioinformatics, experimental and translational cancer immunotherapy and together with communication experts we will embark on the ambition of transforming cell mediated immunotherapy of cancers for the future. We have assembled the necessary competences from Norway, Austria, Italy, Belgium, Germany and Netherlands from mostly academic institutions but also including a recent Austrian start-up making a new class of 3D printers.

INCITE team members EU Project no 964955

- NTNU NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET, Trondheim Norway (Coordinator)
- UPNANO GmbH, Wien, Austria
- TECHNISCHE UNIVERSITÄT, Wien, Austria
- MEDIZINISCHE UNIVERSITÄT, Innsbruck, Austria
- OSPEDALE SAN RAFFAELE, Milano, Italy
- DE DUVE INSTITUTE, Brussels, Belgium
- STIFTUNG REGENSBURGER CENTRUM FUR INTERVENTIONELLE IMMUNOLOGIE Regensburg, Germany
- BOUKJE.COM CONSULTING BV, Simpelveld, Netherlands



Links:

<https://ec.europa.eu/programmes/horizon2020/en/h2020-section/fet-open>