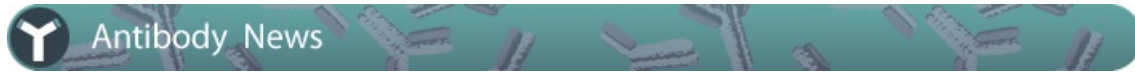


New research project aims at improving companion diagnostics and therapy of tumor diseases

By *mora*
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Joint research project aims at the improvement of companion diagnostics and therapy of tumor diseases

An international team from four EU countries plans to use an innovative concept to improve the use of companion diagnostics in disease and develop new approaches to therapy in the long term. The idea is to combine the use of nanomedicines and short half-life radionuclides for imaging purposes in the living organism. First the nanomedicines, in the form of synthetic nanoparticles or antibodies, are introduced in the body where they actively or passively accumulate in certain organisms or cells. The second stage involves the delivery of a radioactive substance. Where the substance encounters the nanoparticles, a rapid chemical reaction occurs and the two bind together, while the remainder of the substance is eliminated from the body. With the help of an imaging technique, it is now possible to precisely pinpoint where the nanoparticles are located, to what extent they have accumulated at the target site, and what effect they are having on the disease pathology. The EU is funding the project to the tune of EUR 6 million over the next five years. Participating are physicians and clinicians from Copenhagen, chemists at TU Wien, and Johannes Gutenberg University Mainz (JGU), together with commercial partners from Austria and the Netherlands. The project was launched with the clear ambition of transferring the technology into clinical practice.

To read more, please click [here](#) [3].

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