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Next generation immuno-therapy: tumour specific control of immune checkpoints

Using the S-TIR™ technology platform for human specific therapeutic vaccines, OncoQR ML has developed two prototype vaccines for treatment of pancreatic cancer (TYG100) and breast cancer (OQR200). Vaccines derived from this platform consist of two modules, the disease specific module, “immunogen” and the generic module, “warhead”, which directs the vaccines to CD32 on antigen presenting cells, especially pDCs and B cells. The immunogen in oncology is a tumour associated auto-antigen, against which under normal conditions no clinically relevant immune responses can be induced. We will present conclusive proof that it is finally possible to overcome all the tricks of cancer cells to prevent therapeutic immune responses. No more need for bulk infusion of very expensive and artificial monoclonal antibodies, which either try to mimic tumour specific B cell responses (e.g. Herceptin and Perjeta) or try to activate cytotoxic T cells, that by chance may also kill tumours (e.g. Opdivo, Yervoy, Keytruda). S-TIR™ vaccines fully activate both arms of the patient's own immune system resulting in tumour specific polyclonal IgG responses simultaneously with the generation and activation of tumour specific cytotoxic T cells. The responses are reversible and boostable, thus allowing fine-tuning of the clinical responses on a patient to patient basis. S-TIR™ vaccines in contrast to the current checkpoint inhibitors do not induce autoimmune disease and are tumour specific.

Biography

Geert C Mudde received a PhD in Immunology from the University of Utrecht in 1985 and started his international professional career at the Swiss Institute for Asthma and Allergy Research in Davos in 1989. In 1992, he joined the pharmaceutical/biotech industry, where he held several senior management positions at the Novartis Research Institute in Vienna, Austria, the Parke Davis Research Institute in Fresnes, France, Ingenium Pharmaceuticals, Martinsried, Germany, and at igeneon AG, Vienna, Austria. Finally, in 2006, while joining Baxter BioScience in Vienna as interim Manager, he co-founded the biotech company F-star Biotechnology, where he served as “Chief Scientific Officer” from 2007 to 2009. In 2009, together with Christof Langer, he started to develop the S-TIR™ technology platform for human specific therapeutic vaccines which led to the foundation of S-TARget therapeutics GmbH in 2010. Since then, he serves as CSO and Managing Director for S-TARget therapeutics as well as for the S-TIR™ technology spin-off companies OncoQR ML GmbH and TYG oncology Ltd., which were both founded in 2013.

mudde.office@speed.at



Geert C Mudde

OncoQR ML, Austria

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