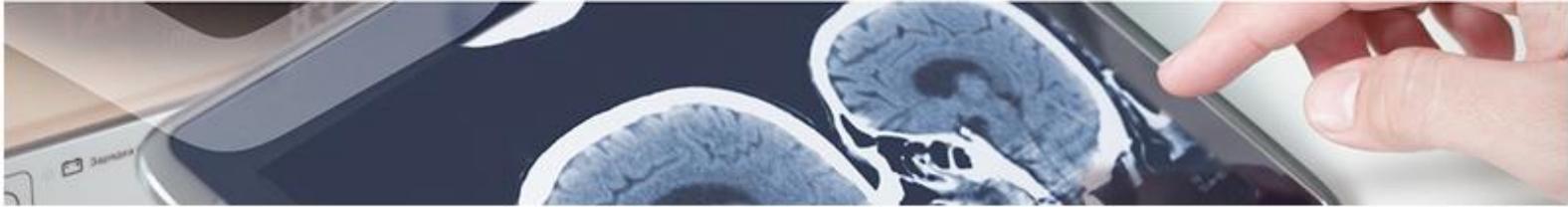


## Diagnostics

# Test kit for assessing and predicting the response to immunotherapy in cancer patients

A research group of the Andalusian Public Health System (SSPA) has developed a kit for assessing and predicting tumour immune escape and response to treatment.



### Description

Tumour immune escape consists in the evasion by tumour cells to the action of tumour specific T-cells. Cells with low immunogenicity possess a high capacity to metastasise.

In patients undergoing immunotherapy, a lack of response and the metastasis process appear to be associated with the immune selection of variants of HLA-negative tumour cells. Therefore, it is important to know whether or not the target tumour cells are, or will be, HLA-class I negative.

The research group has developed a kit to assess and predict the immunotherapy response, enabling the selection of different groups of patients. Poor response entails the deficient expression of a particular gene. There are various degrees of gene expression deficiency, and this kit can be used to assess this, given that such deficiencies do not always result in a poor response to treatment.

In addition, for those patients who would not respond, there is the opportunity to re-establish the expression of the relevant gene, and similarly of the HLA class I genes, and therefore the immune response. As a result, the patient undergoing immunotherapy can be certain that it will be effective.

3. It offers a means to restoring the immunotherapy response in patients who initially did not respond.



### Intellectual Property

This technology is protected by patent.



### Aims

We are looking for a partner interested in a license and/or a collaboration agreement to further develop and exploit this innovative technology.



### Classification

Area: Diagnostic  
Pathology: Cancer or oncology



### Advantages

1. Assesses/predicts the response to immunotherapy in cancer patients.
2. Distinguishes the various degrees of gene expression deficiency, thereby enabling the establishment of patient cohorts.