

Device for guided biopsies in real time

DESCRIPTION OF THE TECHNOLOGY

The CSIC and the University of Valencia have developed a new device useful for oncology diagnoses and guided biopsies in real time. It is a compact device that, through the use of a dual technology, allows guided biopsies, facilitating the functional and anatomical visualization of the tumor area in real time. In this way, more precise biopsies are obtained from the area that may contain tumor activity, since tissue extraction is performed on an anatomically and functionally identified area, facilitating the work of medical personnel and increasing the effectiveness of biopsies carried out.

The new device allows biopsies to be performed on identified areas, since it is a dual system, based on anatomical and functional information recorded in

real time. In this way the biopsy is performed in a precise way, on a perfectly identified area, reducing the amount of tissue that needs to be extracted and obtaining a sample of high interest for its study, given the heterogeneity of the tumor tissue, and allowing a treatment of The disease in a personalized way. Such personalization of the treatment leads to an improvement in the success of the same.

On the other hand, its ability to identify areas of tumor activity in real time in combination with its compact and portable design allows the analysis of areas of the patient that are difficult to access, being a device easily manageable by medical personnel.

MARKET APPLICATION SECTORS

Medical and healthcare sectors.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

- It allows the conduction of guided biopsies in real time, in this way the medical staff acts in a more precise way.
- The new device uses a dual system, which identifies the affected area in a functional and anatomical way.
- It allows more precise and effective biopsies, avoiding unnecessary damages to the patient, facilitating the early diagnosis.
- Compact device that can be used even in areas of difficult access in the patient and facilitates the work of medical personnel.
- Easy-to-use device.

CURRENT STATE OF DEVELOPMENT

Patent filed and active in Europe, USA and Japan.

COLABORATION SOUGHT

Companies of equipment and medical instrumentation for use in tumor diagnosis and biopsies interested in the license of the patent are being sought.

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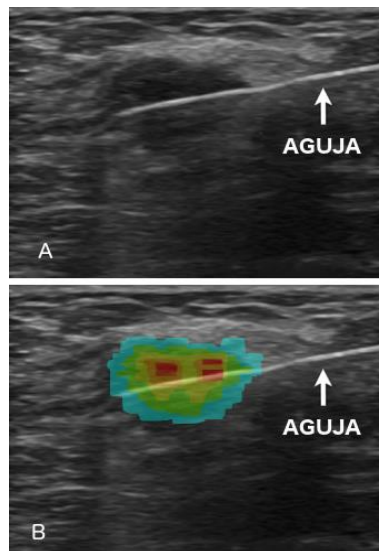


Image 1. Anatomical image obtained according to known techniques (A), and a combined anatomical and functional image obtained through the new device (B).

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