The University of Barcelona has developed an electrosurgical device commercially called Coolinside in collaboration with the University of Zaragoza. The license for its development and international marketing was transferred to the spin-off of the Polytechnic University of Valencia, Apeiron Medical. This is a surgical device with an optimal design for coagulation and cutting during excision of a fragment of an organ with a tumor (such as the liver).

Coolinside is a surgical device that facilitates the task of the surgeon, and increases patient safety. It features a metal electrode which distributes radio frequency electrical currents into the tissue to produce heat and thus increase clotting. It is able to dramatically reduce blood loss during operations of liver cancer—one of the most important problems that surgeons find in this type of intervention—and to reduce the length of hospital stay from 11 to 6 days.

Coolinside emits radio frequency radiation to coagulate the tumoral tissue, reducing blood loss from half a litre to 50 ml. It has already been successfully used in more than 30 hospitals in Spain and more than 300 patients.