

Image Credit: EPFL/Marc Delachaux

### Tiny Ant-inspired Tribots

**RESEARCHERS** at the Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland, have developed tiny robots — Tribots, weighing 10g that can behave and operate like ants. The robots can jump or crawl across surfaces and communicate with each other to complete complex tasks and achieve goals. They are three-legged, T-shaped origami ants. For detection and communication purposes, they are equipped with infrared and proximity sensors. They possess intelligence and strength, hence, as a colony, they may use complex strategies to achieve tasks and can evade large predators too. The tiny ant-inspired Tribots are mainly required for emergency search and rescue operations. The study was published in *Nature*.

Source: [actu.epfl.ch](http://actu.epfl.ch)

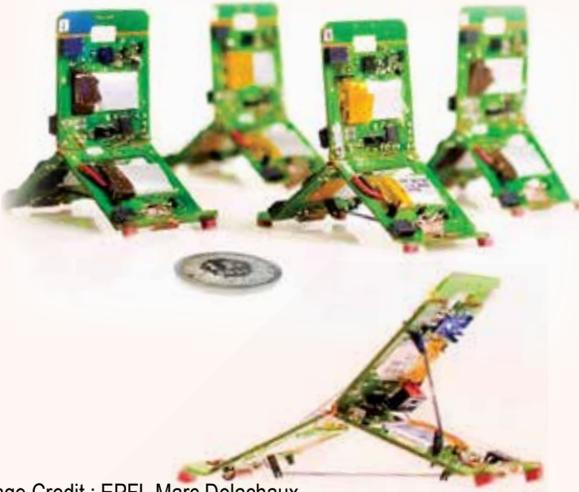


Image Credit : EPFL Marc Delachaux

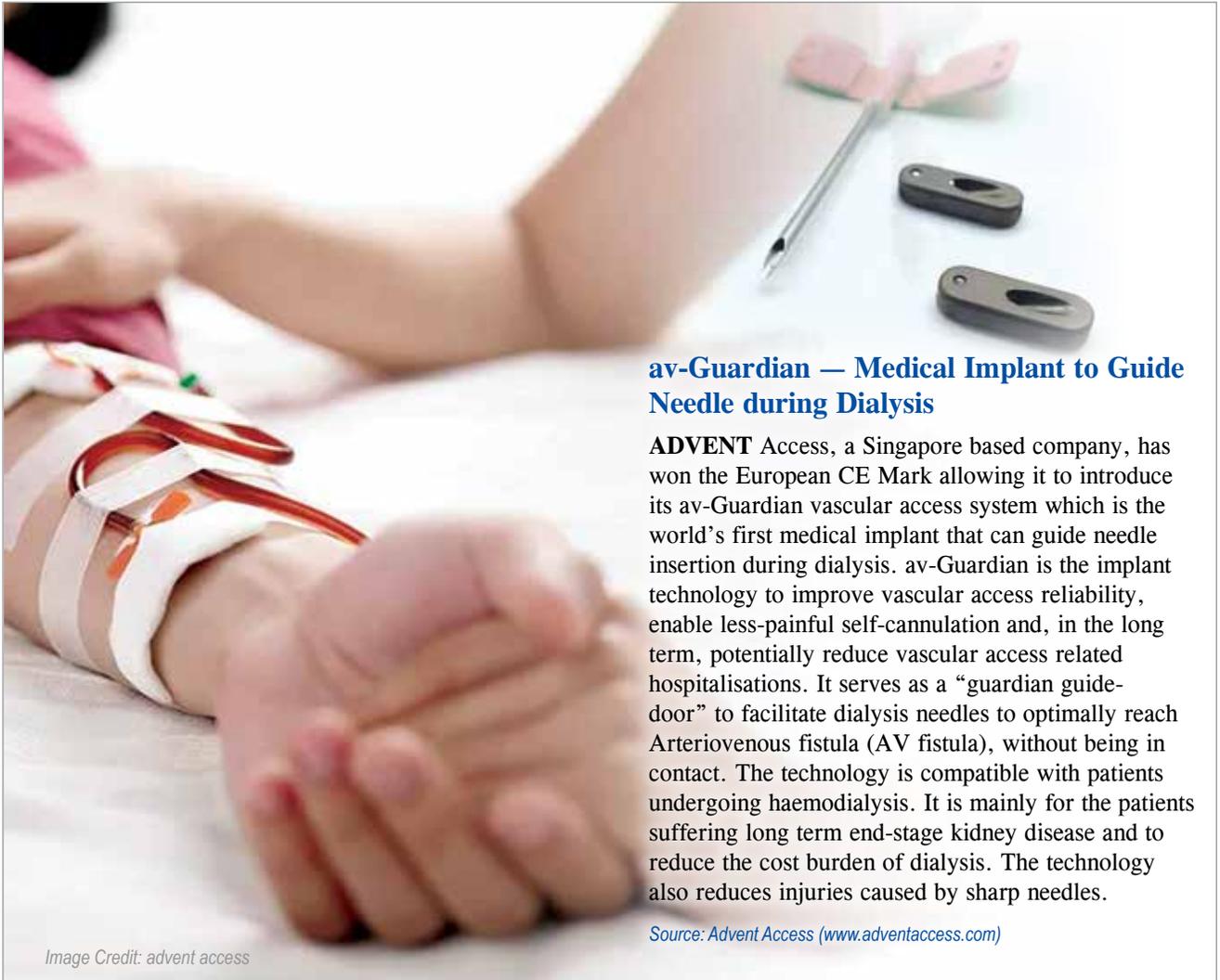
### Roli's Hyper-expressive Lightblock

**ROLI'S** Beatmaker kit features the hyper-expressive Lightblock making the digital instruments almost feel organic. The beautiful, portable lightblock is a wireless digital controller with its flexible nature. Hyper-expressive Lightblock has also finger drumming skills that play hundreds of expressive sounds and complete your track with a suite of software. It is an all in one package for making beats. It has touch-responsive lightpad block surfaces with a high powered software system. You can also play drums and melodies with this new gadget. The 5D touch surface of the lightpad block will transform the beats giving smooth music.

Source: [newatlas.com](http://newatlas.com)



Image Credit: Loz Blain/New Atlas

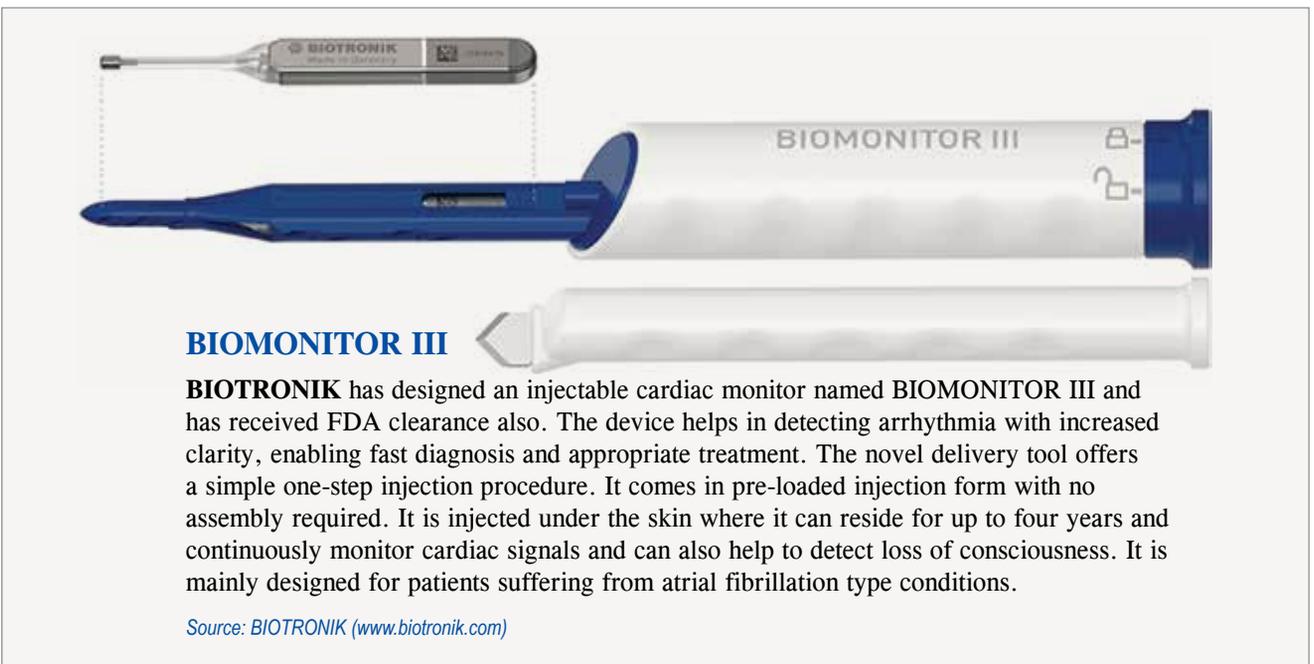


### av-Guardian — Medical Implant to Guide Needle during Dialysis

**ADVENT** Access, a Singapore based company, has won the European CE Mark allowing it to introduce its av-Guardian vascular access system which is the world's first medical implant that can guide needle insertion during dialysis. av-Guardian is the implant technology to improve vascular access reliability, enable less-painful self-cannulation and, in the long term, potentially reduce vascular access related hospitalisations. It serves as a “guardian guide-door” to facilitate dialysis needles to optimally reach Arteriovenous fistula (AV fistula), without being in contact. The technology is compatible with patients undergoing haemodialysis. It is mainly for the patients suffering long term end-stage kidney disease and to reduce the cost burden of dialysis. The technology also reduces injuries caused by sharp needles.

Source: *Advent Access* ([www.adventaccess.com](http://www.adventaccess.com))

Image Credit: *advent access*



### BIOMONITOR III

**BIOTRONIK** has designed an injectable cardiac monitor named BIOMONITOR III and has received FDA clearance also. The device helps in detecting arrhythmia with increased clarity, enabling fast diagnosis and appropriate treatment. The novel delivery tool offers a simple one-step injection procedure. It comes in pre-loaded injection form with no assembly required. It is injected under the skin where it can reside for up to four years and continuously monitor cardiac signals and can also help to detect loss of consciousness. It is mainly designed for patients suffering from atrial fibrillation type conditions.

Source: *BIOTRONIK* ([www.biotronik.com](http://www.biotronik.com))