Yoto Player — a Smart Speaker for Kids

Yoto player is a screen-free smart speaker designed for kids by Pentagram. The smart speaker is controlled by physical cards helping parents to control their kids by making them listen to what they want them to listen. The device has been equipped with a built-in battery for portable play and a clever magnetic dock to re-charge. In the smart speaker, parents can easily upload the desired content to the blank cards by using a parent app enabling them to manage settings behind the scenes.

Source: https://www.yotoplay.com/

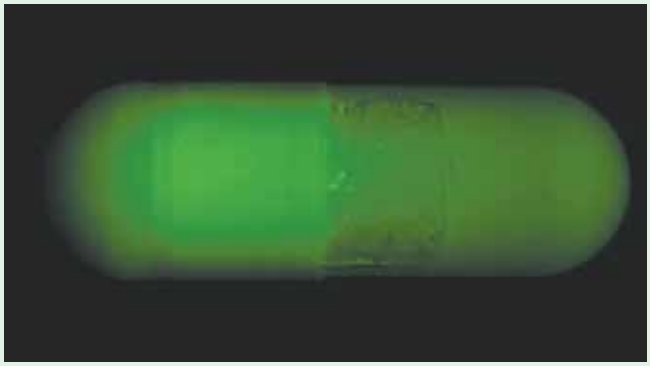
GoFindMe — Track your Loved Ones

GoFindMe is a real-time GPS tracker that can track even without cell service. The device can locate the loved ones more easily as it has built-in GPS and long-range radio technology, etc. The features of the device help you to stay in touch with your loved ones even if your cellphone fails. This provides an all-round tracking and communication solution for all outdoor activities.

Source: https://www.aiblue.com/

Edible "Security Tags" Protecting Drugs from Duplicacy

Purdue University researchers have designed an edible "security tag" to tackle the problem of counterfeiting of drugs. The security tag can be embedded in medicine. To copy the drug, a counterfeiter would have to solve a complicated puzzle of patterns not completely visible to the naked eye.



The tag serves as a digital fingerprint for a drug capsule or tablet. It uses a verification technique called "physical unclonable functions," or PUF. PUFs generate a different response once stimulated, rendering them unpredictable and very difficult to imitate. It is the first edible PUF – a thin, transparent film made up of silk proteins and fluorescent proteins which are fused genetically. As the tag is easily digestible and made entirely of proteins, it can be consumed as part of a pill or tablet. The research has been published in the journal *Nature Communications*.

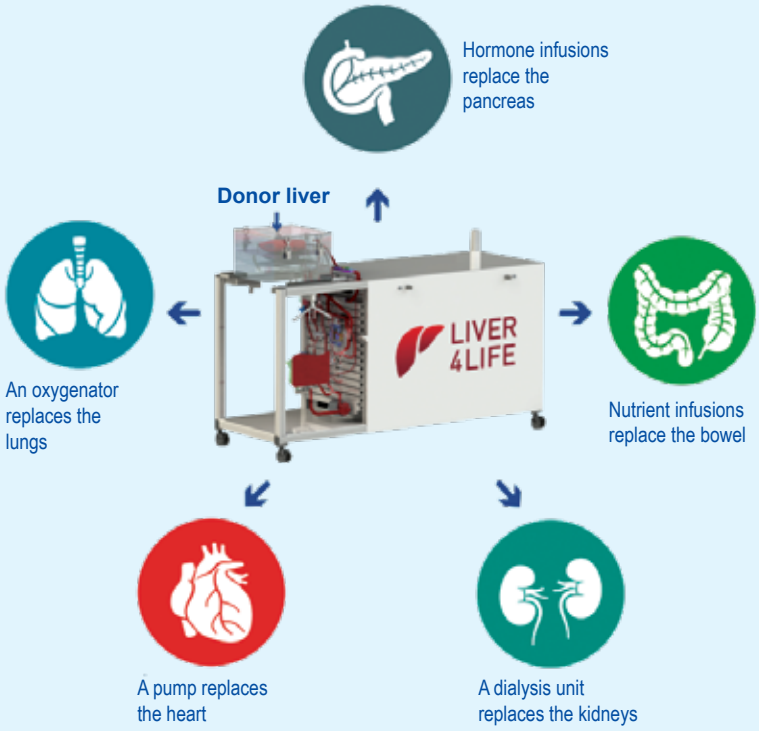
Source: purdue.edu

Perfusion Machine to Keep Liver Alive

Researchers at the University Hospital Zurich, ETH Zurich, Wyss Zurich and the University of Zurich have developed a machine that repairs injured human livers and keeps them alive outside the body for one week. This invention will increase the availability of organs for transplantation, saving the lives of many patients with severe liver diseases.

Till date, livers could be stored safely outside the body for only a few hours. However, with the new perfusion technology, livers even the injured ones, can now be kept alive outside the body for a week. The basis of this technology is a complex perfusion system that mimics core body functions. The related study was published in the Journal *Nature Biotechnology*.

Source: Press Release (University of Zurich)



(*Image credit: beamue*)

Self-moisturising Smart Contact Lenses

Researchers at Tohoku University have developed a novel kind of smart contact lenses which are self-moisturising preventing eyes from dryness. The self moisturising system maintains a layer of fluid between the contact lens and the eye.

The common problem with contact lenses is that they often cause "dry eye syndrome" due to less blinking and increased moisture evaporation. In order to tackle this problem, the researchers have developed a novel mechanism to keep the lens moist. The system uses Electro-osmotic Flow (EOF), which allows liquid to flow when a voltage is applied across a charged surface. The research is published in the journal *Advanced Materials Technologies*.

Source: http://www.tohoku.ac.jp/