

Technology Radar: BusinessLab's review of technologies that are making the news, Jan 2014

An *ActiveAge* Report

Apple hire medical tech experts

It is rumoured that Apple's forthcoming iWatch may have a health focus. This has been fuelled by the fact the company has recruited two medical technology experts.

Nancy Dougherty from Sano Intelligence and Ravi Narasimhan from general medical devices firm Vital Connect both joined Apple earlier this year, according to [9to5Mac](#).

Dougherty's research was based around the development of a device that analyses the user's blood, while Narasimhan was working with biosensor technology for measuring vital signs and detecting falls.

For more information visit

<http://www.telegraph.co.uk/technology/apple/10586331/Apple-hires-medical-tech-experts-fueling-iWatch-rumours.html>

Google's Smart Contacts

Google has created glucose-monitoring contact lenses, which are currently in clinical trials. These have been designed to make glucose-monitoring for diabetic patients more convenient and less invasive than the traditional finger prick test.

The lenses boast thousands of little miniaturised transistors and a hair thin antenna that monitor glucose levels in tears and wirelessly transmit these to a handheld device.

Microsoft has also been looking into this concept. A functional lens would be a breakthrough in both medicine and technology.

For more information visit:

<http://www.bbc.co.uk/news/technology-25771907>

The First 3D Printed Organ

Many people die every day waiting for an organ transplant but this may change soon as a result of 3D printing.

Advances in the 3D printing of human tissue have moved fast enough that San Diego-based bio-printing company Organovo now expects to unveil the world's first printed liver next year.

Bio-printing lays down layer after layer of material i.e. live cells to form a solid physical entity - in this case, human tissue. The major stumbling block in creating tissue continues to be manufacturing the vascular system needed to provide it with life-sustaining oxygen and nutrients.

Organovo, however, said it has overcome that vascular issue to a degree

Organovo has as yet not released any information on possible future implantable organs. Any such initiative would have to undergo rigorous government review before being approved for clinical purposes.

For more information please visit

<http://www.organovo.com/3d-human-tissues/3d-human-tissues-research/tissue-models/3d-human-liver-tissue-model>

Christie Medical Holdings wins new innovative technology designation from Novation for VeinViewer

Christie® Medical Holdings, Inc., a global leader in mobile vascular imaging systems, this week announced that the company's near-infrared VeinViewer® product, the first and only full field digital, HD imaging [vein illumination](#) device on the market, was awarded a new innovative technology designation from Novation.

VeinViewer technology contributes to improved healthcare delivery process at institutions and has decreased unnecessary PICC line placements resulting in significant cost savings and vein preservation. It has been shown through clinical studies to increase both first stick success and patient satisfaction up to 100 %.

The company's goal is to deliver real-world results like significant cost and risk reduction through better IV first stick success and reduction of medically unneeded PICC lines. We also strive to help boost the much needed patient satisfaction scores tied to reimbursement.

For more information visit:

<https://www.christiemed.com/>