

Nanotech device Mimics dog's nose to detect explosives

I-Micronews

Portable, accurate, and highly sensitive devices that sniff out vapors from explosives and other substances could become as commonplace as smoke detectors in public places, thanks to researchers at University of California, Santa Barbara.

Researchers at UCSB, led by professors [Carl Meinhart](#) [1] of mechanical engineering and [Martin Moskovits](#) [2] of chemistry, have designed a detector that uses microfluidic nanotechnology to mimic the biological mechanism behind canine scent receptors. The device is both highly sensitive to trace amounts of certain vapor molecules, and able to tell a specific substance apart from similar molecules.

Source URL (retrieved on 03/01/2015 - 12:46pm):

http://www.mdtmag.com/news/2012/11/nanotech-device-mimics-dogs-nose-detect-explosives?qt-video_of_the_day=0

Links:

[1] <http://www.me.ucsb.edu/meinhart/>

[2] <http://www.chem.ucsb.edu/people/academic/martin-moskovits>