

Tiny sensor and microchip are created

by UPI

BOULDER, Colo. - U.S. scientists have created a sensitive tiny sensor that can detect nuclear magnetic resonance in samples of fluids flowing through a novel microchip. The sensor developed at the National Institute of Standards and Technology can detect nuclear magnetic resonance using a prototype chip device, developed in collaboration with the University of California-Berkeley. Researchers said the device might have wide application as a sensitive analyzer, for example in rapid screening to find new drugs by determining physical, chemical, electronic and structural information about molecules. Nuclear magnetic resonance signals are equivalent to those detected in magnetic resonance imaging systems. The research is reported in the Proceedings of the National Academy of Sciences.

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