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Bactusense from Israel will give real-time identification and analysis of bacteria in food processing plants, water systems, hospitals and more

Is your food and water contaminated?



By [Guest Column Israel21c](#) May 21, 2014 | [Comments](#) | [Print friendly](#) | [Subscribe](#)

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What if one product could detect bacteria in food-processing plants, hospitals and municipal water supplies — inexpensively and in real time?

Thanks to Israeli nanotechnology, that product is on the horizon and has the potential to save millions of lives lost to bacterial contamination every year.

The Bactusense optical biosensor, still in development, uses silicon-based microchips to trap bacteria from any liquid — such as water, milk or blood — flowing through the system. The optical scanner then identifies the trapped microbes.

Bactusense's technology was invented by Prof. Amir Saar of the Hebrew University of Jerusalem and Prof. Ester Segal of the Technion-Israel Institute of Technology. The IP was licensed in May to Capitalnano, Israel's leading investor and founder of startup companies based on nanotechnologies coming out of Israeli universities.

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