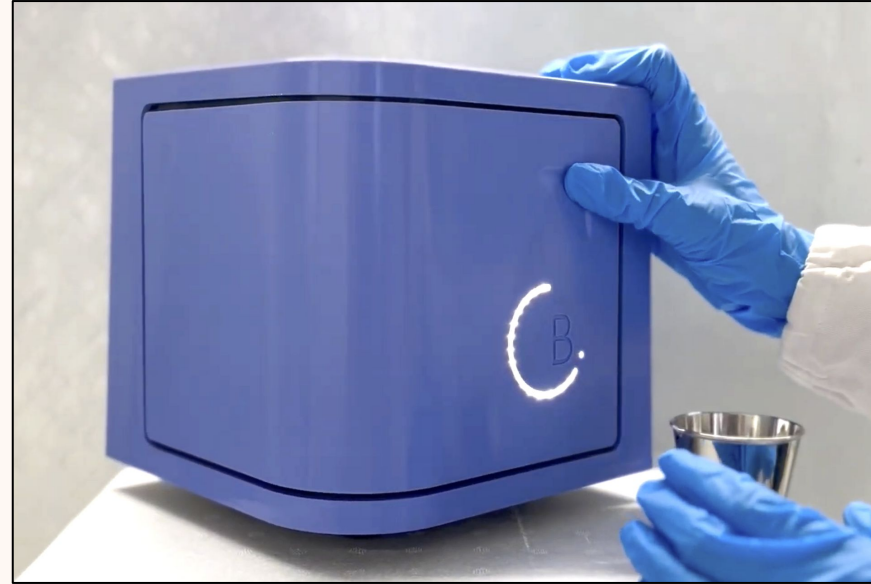




Breast cancer detection from a urine sample

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A solution: The Blue Box

Easy and **highly sensitive** BC test to reliably **rule healthy women out** of the screening system, without altering the existing clinical workflow.



During her routine gynecology checkup, Lilly provides a urine sample as per **standard procedure**.



A nurse places the urine sample inside The Blue Box, which performs an **automatic pain-free analysis** in **30 minutes**.



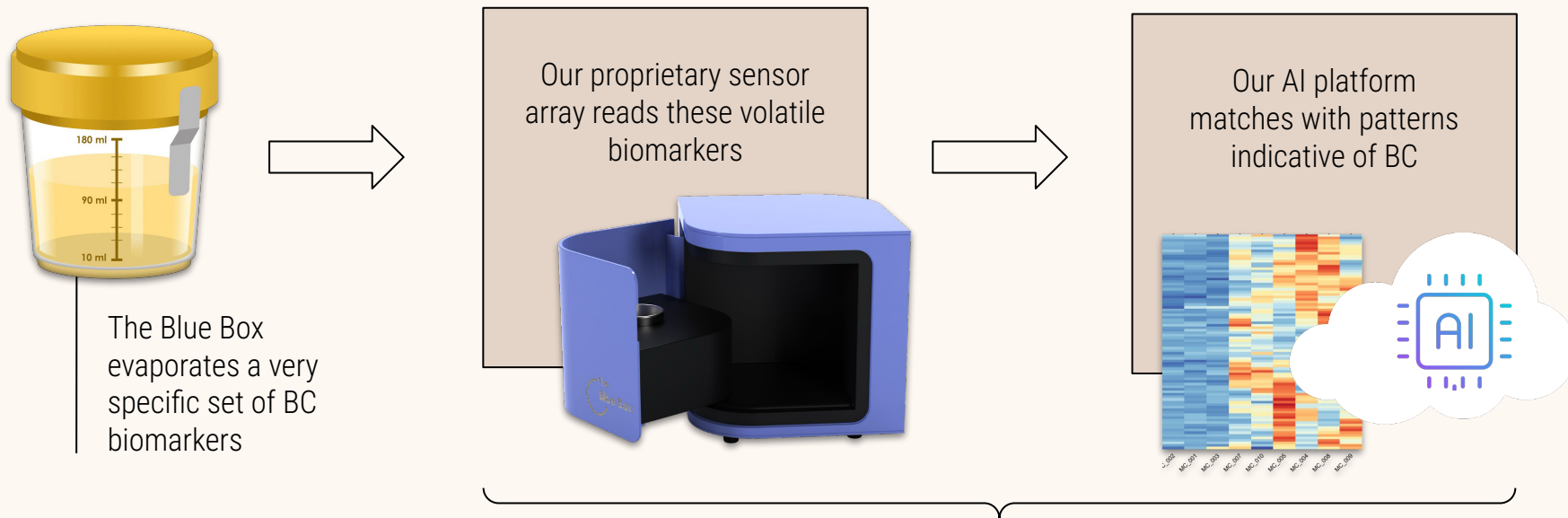
The Blue Box is more sensitive across all populations, and can **see some tumors that mammography cannot**.



As a reliable rule-out test, The Blue Box **reduces unnecessary follow-ups**, for better resource allocation.

Underlying science

6 years of combined research at the **University of Barcelona** and the **University of California Irvine** led to the identification of relevant biomarkers and the optimal sample processing method



What we do differently

We made standard metabolomic techniques portable and accessible

State of the art

Science has long demonstrated the feasibility of detecting BC in urine, but no biomarker can work as a **standalone BC indicator**



Our breakthrough

We trained our AI to find BC based on the presence of **a set of biomarkers** and the proportionality between their intensities (i.e., a **VOC pattern**)

Trade secret

Body fluids are typically analysed with a GC-MS*, but such a method is **unsuitable for screening**

- ⊖ Expensive
- ⊖ Trained personnel and expensive facilities needed



By adding a substantial layer of data pre-processing, we can acquire high-quality data with a **low-cost, easy-to-use, point-of-care device**

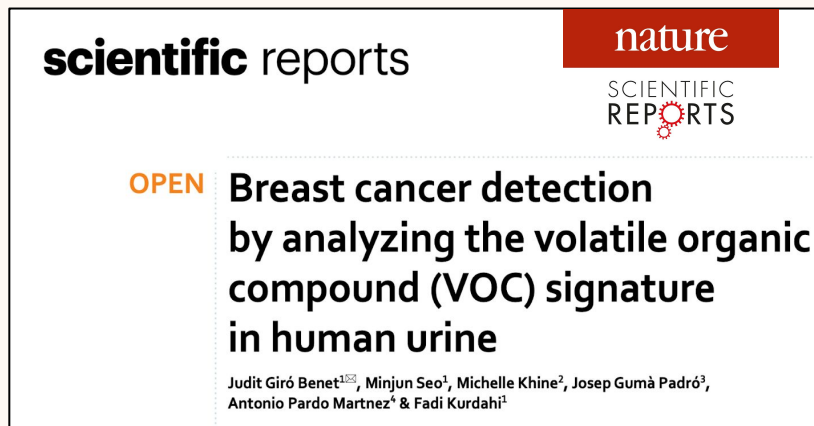
- ✓ Fast
- ✓ Accessible
- ✓ Radiation-free
- ✓ Comfortable

Patent

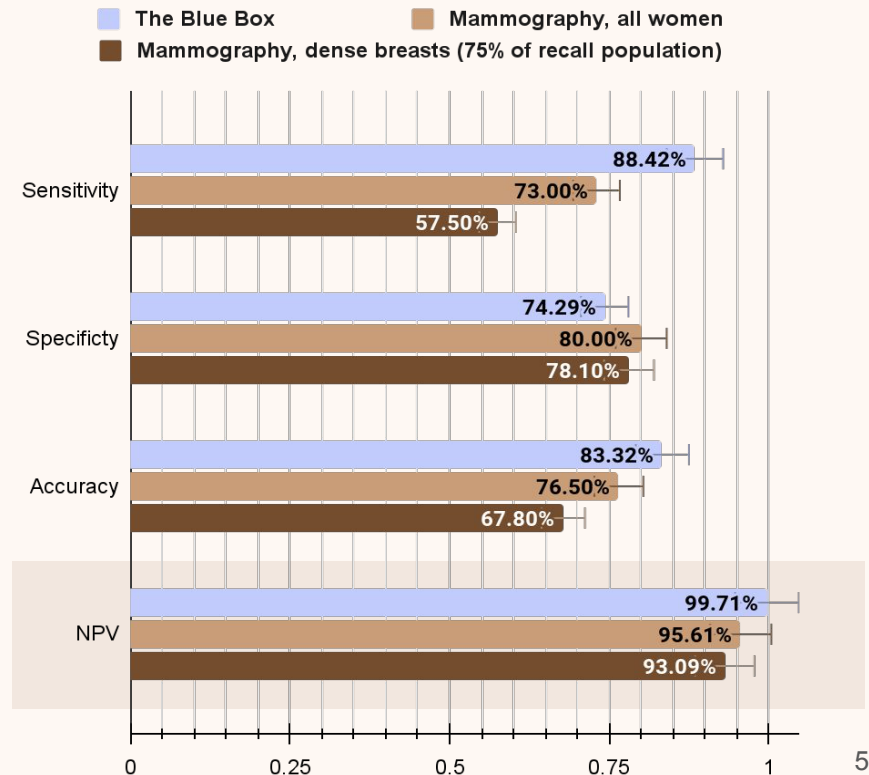
*Gas Chromatography-Mass Spectrometry

Proof of concept data

Trained and validated for **early-stage breast cancer** with 500+ patients at 7 hospitals



Accessible here: nature.com/articles/s41598-022-17795-8



Product positioning

