

OPPORTUNITÀ TECNOLOGICHE NEL SETTORE DEI DISPOSITIVI MEDICI

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Sensor Technology for Rapid, Multiplex Testing

Team and Partner



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Partner

Product concept

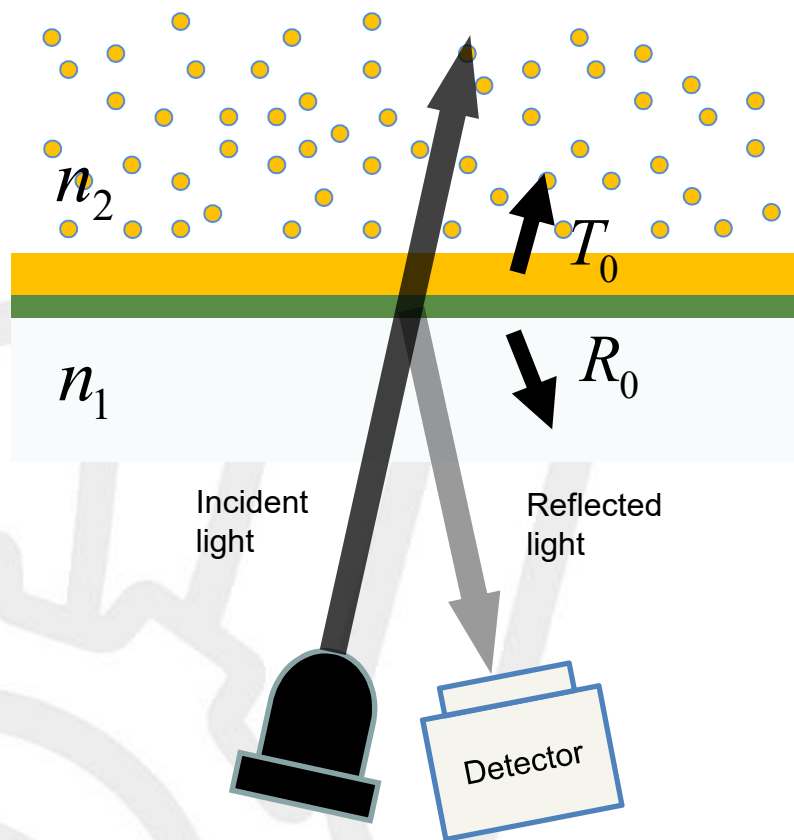
*Screening of **hundred** different biochemical targets in a **drop** of sample, performed **in few minutes** by **untrained** personnel...*

*just “**fill and click**”.*

- human diagnostic
- agro-food safety
- bio-defense
- environmental monitoring



RPI Technology



Key point:

- **Multiplexing** analysis
up to dozens of target
- Working in **complex media**
such as blood, milk, ...
- **Low cost** device
multiplex test with few €

RPI (Reflective Phantom Interface):

Multi-spot, label-free biodetection at a phantom plastic-water interface
Proceedings of the National Academy of Sciences USA, 110, 9350 (2013)

A fast and simple label-free immunoassay based on a smartphone
Biosensors and Bioelectronics, 58, 395-402 (2014).

Low cost device

Real-time monitoring, enabling the multiplexed detection of **ng/ml (pM) hepatitis and HIV** markers in a few minutes.



Agro-food safety



Agro-food safety



- Cartridges:**
- Product specific
 - Disposable
 - Multiplex analysis

Consumable



- Reader:**
- Universal reading station
 - Portable

Hardware



- App:**
- User interface
 - Data acquisition
 - Database

Software

**ProXentia is Winner of Horizon 2020
SME Instrument 2014 phase 1**



ProXentia

Optical biosensors

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Thank you for your attention