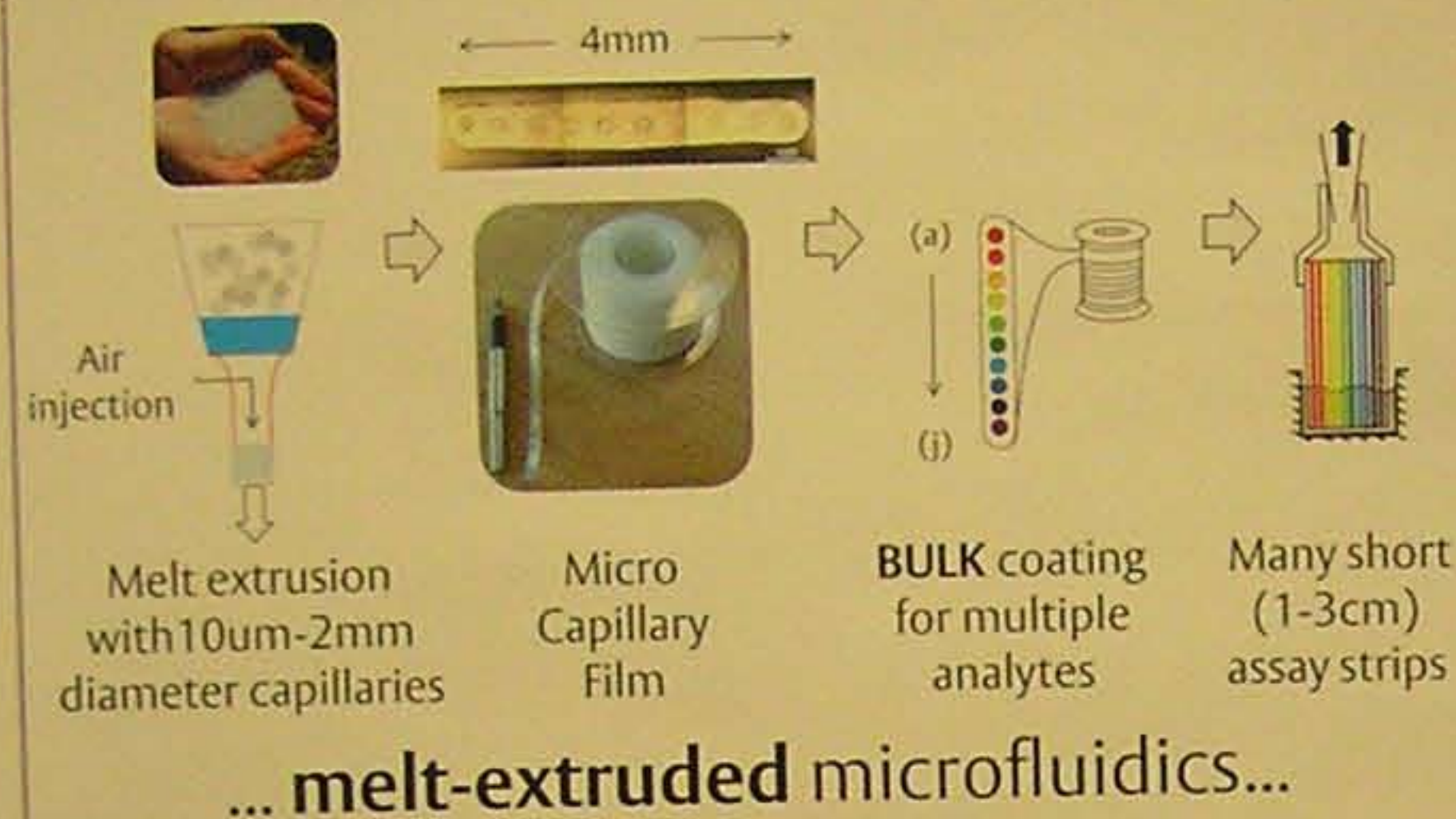


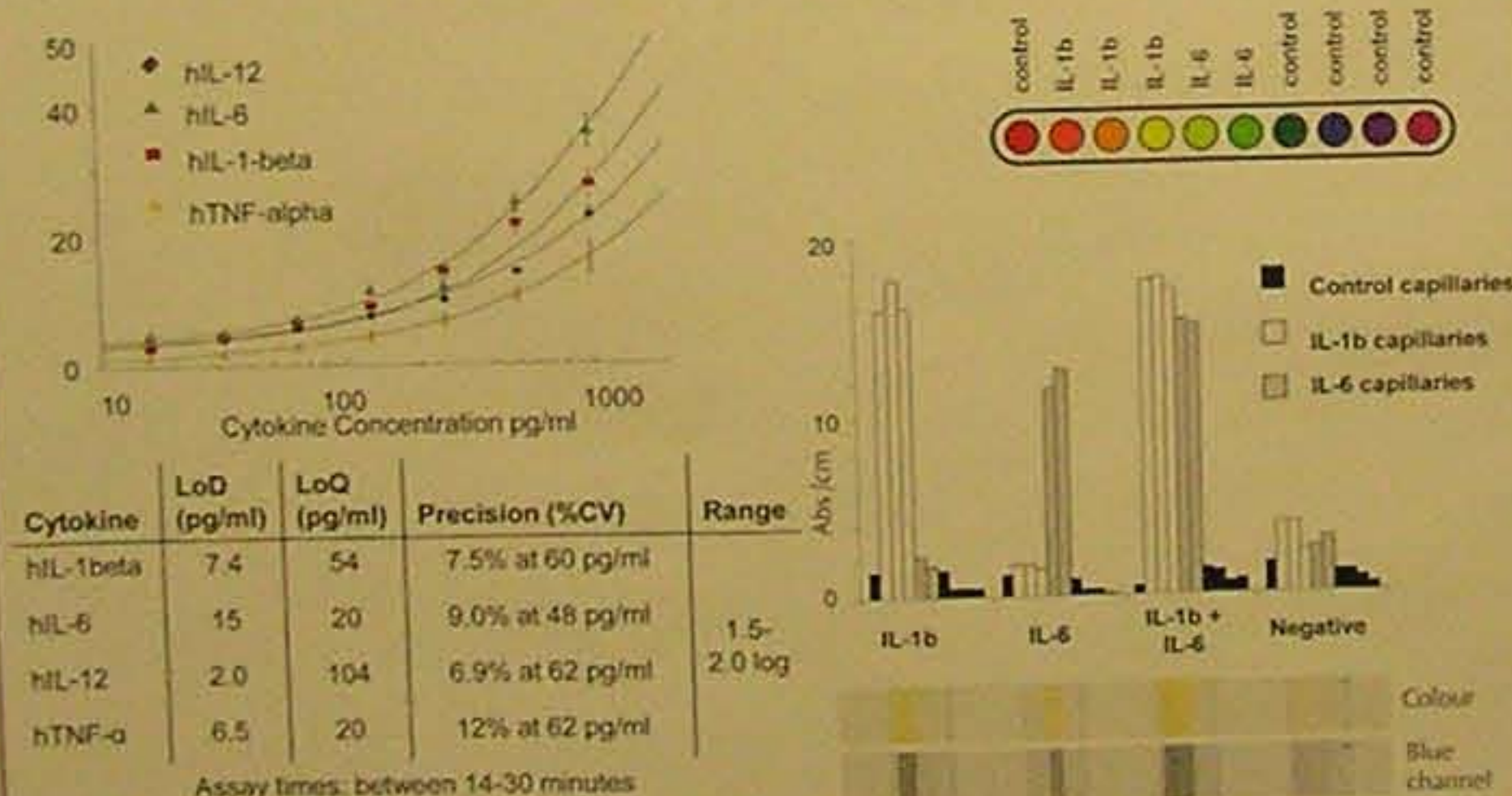
Fast and Sensitive Multiplex Immunoassays Using Affordable Microfluidics for Point of Care Diagnostics

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1 Affordable and Scalable Microfluidics

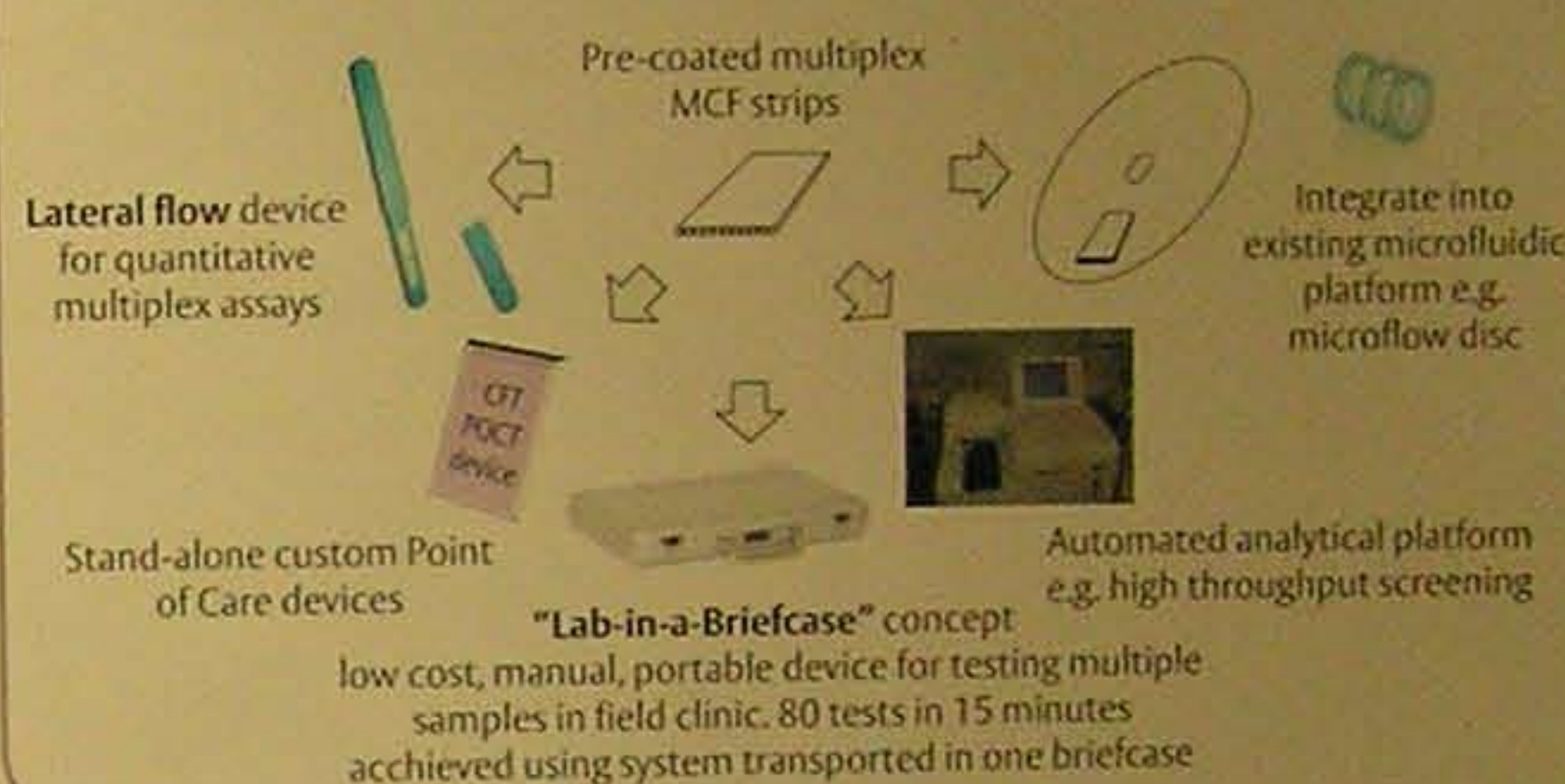


2 Rapid, sensitive, quantitative and multiplex assays

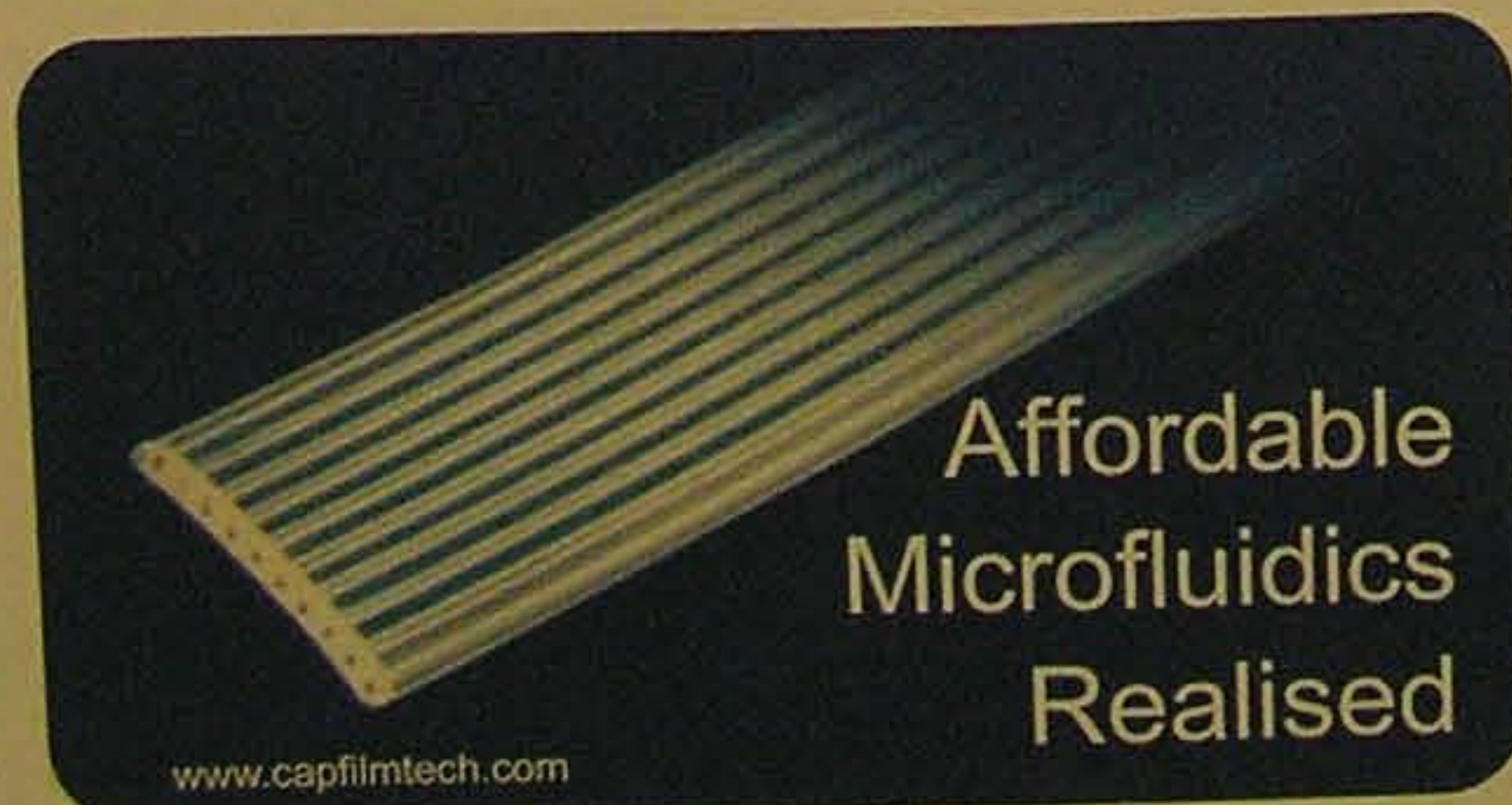
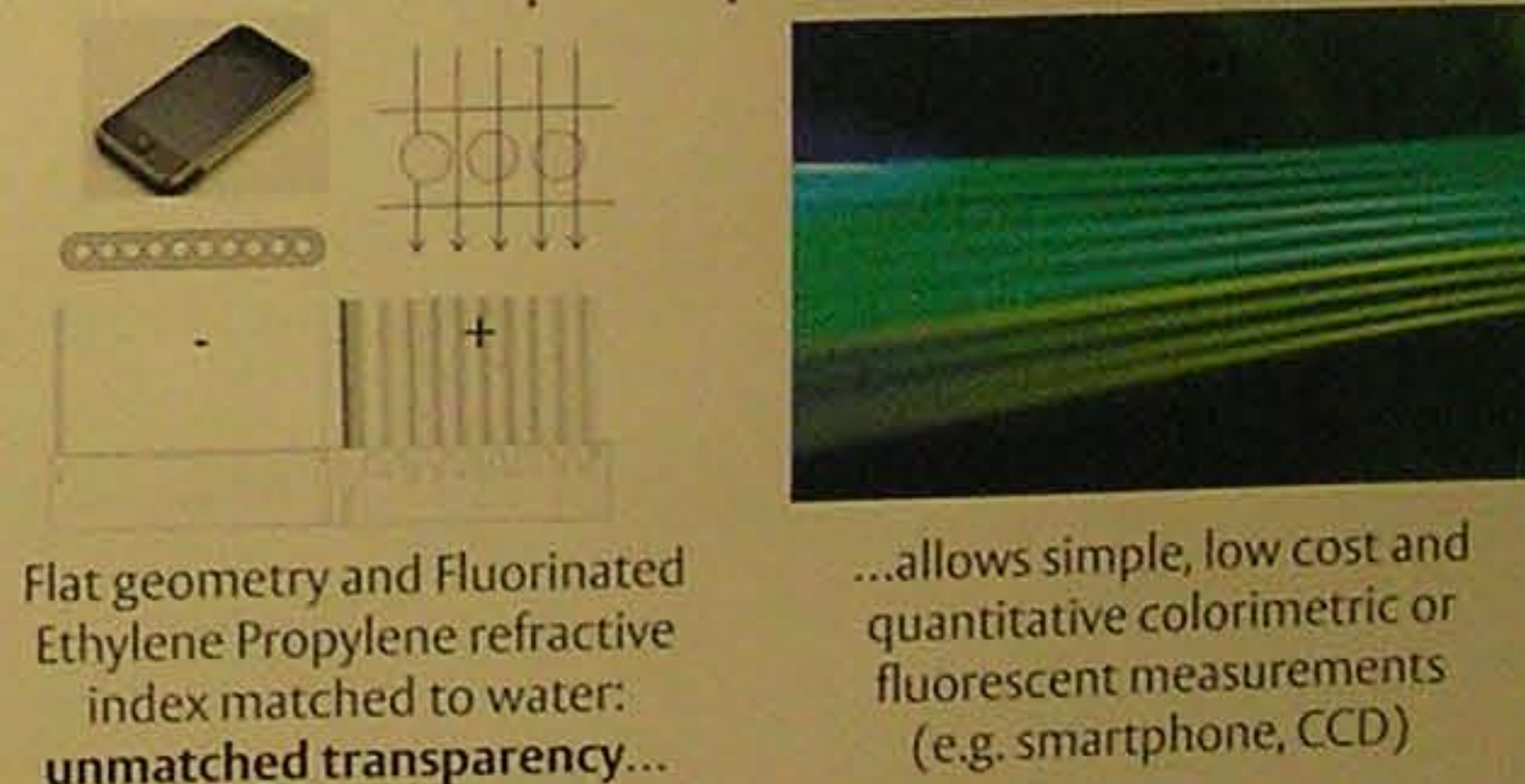


3 Benefits and Applications

- Multiple analytes
- Short assay times
- Simple manufacturing
- Standard assay chemistry
- Simple optical detection
- Portable & disposable



4 Unique optical properties



Next Generation Lateral Flow for Point-of-Care Testing

Microfluidic 'lab-on-a-chip' technology offers to transform diagnostics, but device manufacture remains challenging. A unique extruded micro-engineered material, Micro Capillary Film (MCF) offers a solution. MCF is highly suited to performing rapid, quantitative, multi-analyte point-of-care diagnostics, and can be continually produced on a massive scale.

Diagnostic applications of a fluoropolymer MCF- called FluorEx- are being developed at the University of Reading School of Pharmacy and Loughborough University Chemical Engineering Department with Capillary Film Technology Ltd, founded by inventors Edwards and Reis together with manufacturer Lamina. See www.capfilmtech.com for more details.

CFT is seeking new partners to co-develop products that benefit from cost-effective, quantitative multi-analyte assays in diagnostics and related markets.

References

- Edwards et al, Lab Chip, 2011 (plus submitted manuscripts)
- WO/2011/117579 "Immunoassays, methods for carrying out immunoassays, immunoassay kits and method for manufacturing immunoassay kits"

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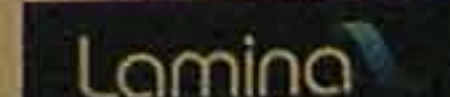
Funding and Contributors



Engineering and Physical Sciences Research Council



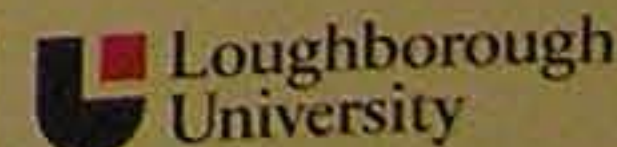
bioscience for the future



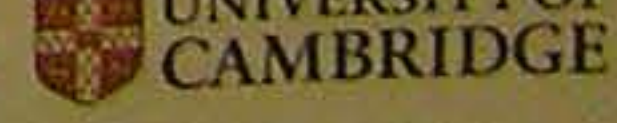
Lamina



SBRI HEALTHCARE



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