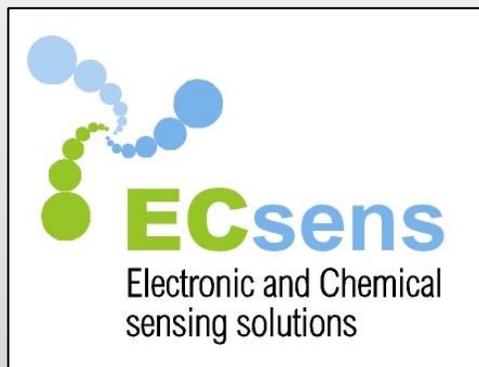


Análisis al alcance de tu móvil

Miguel M. Erenas

Departamento Química Analítica (UGR)

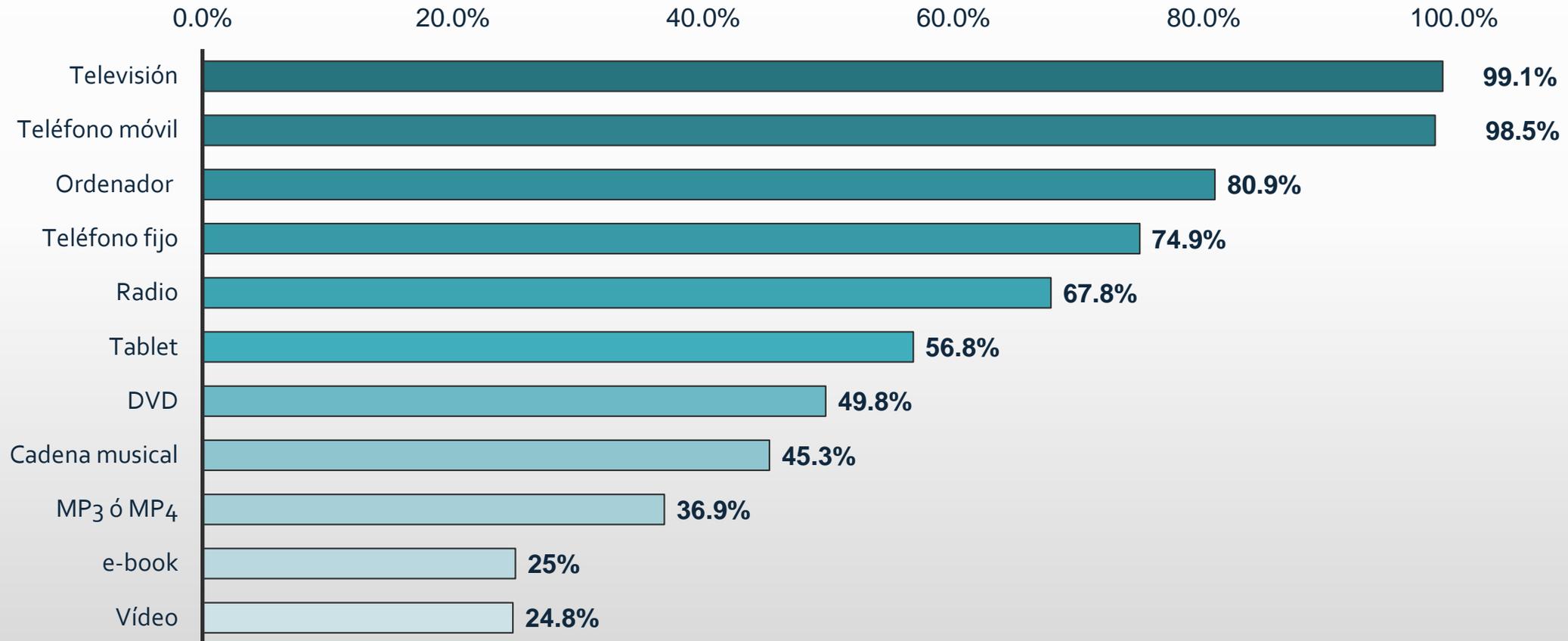


Desgranando 
Ciencia 6

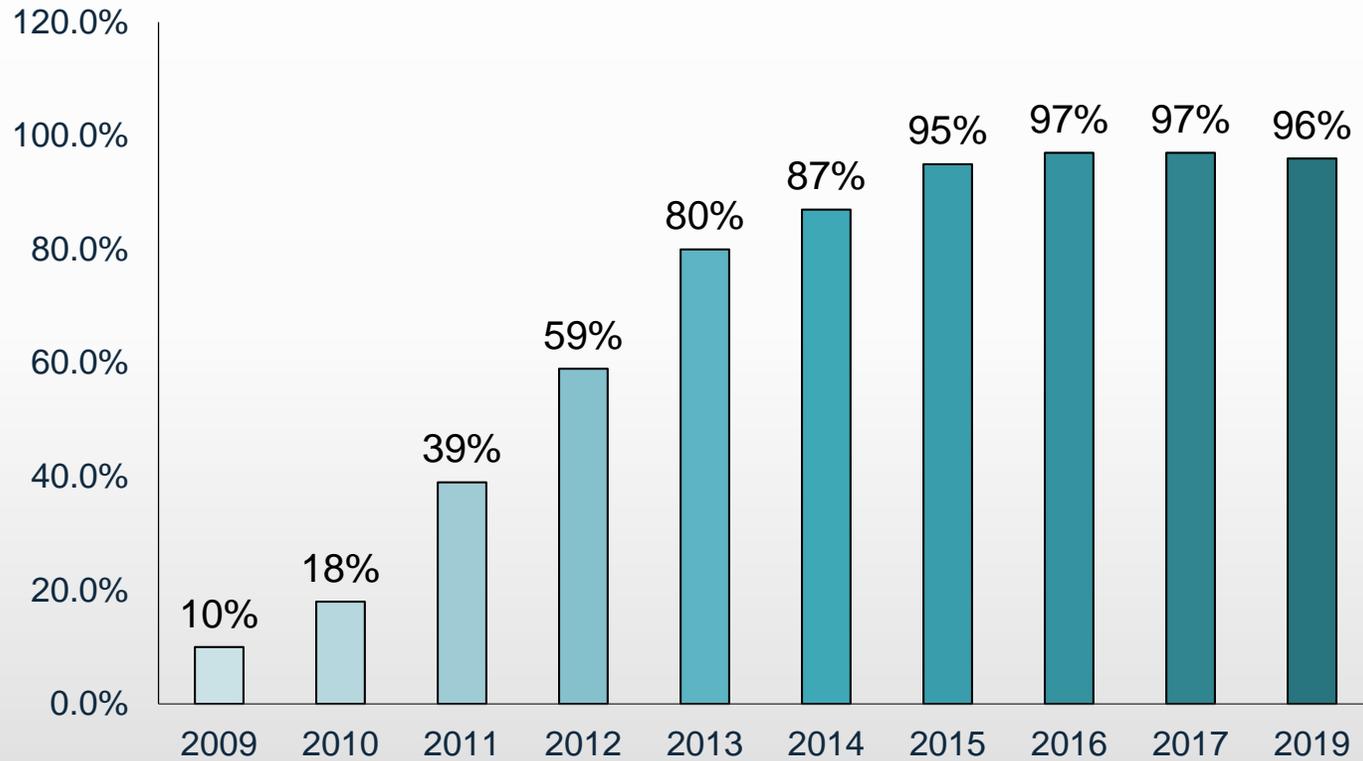
Electrónica de consumo



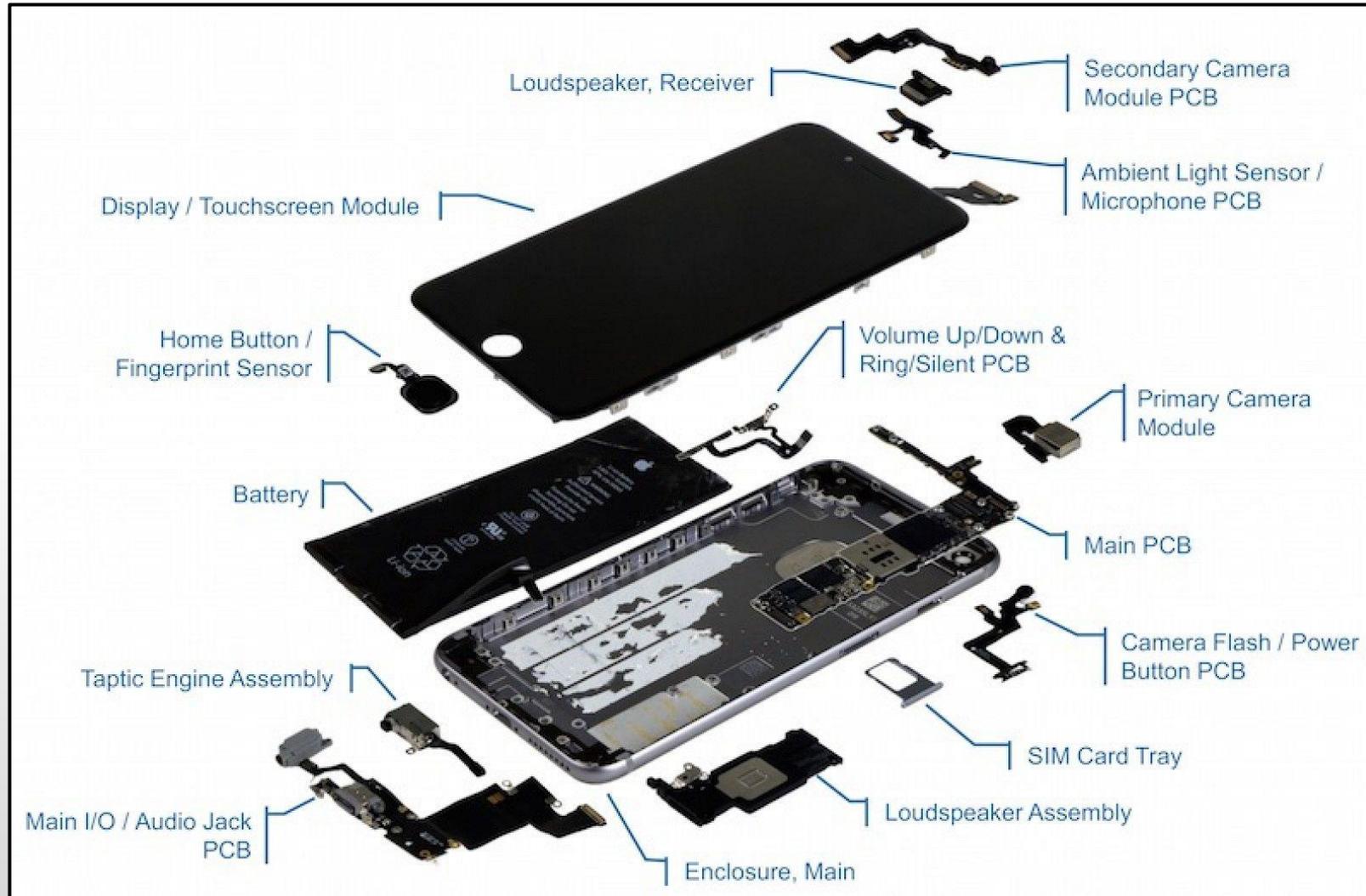
Estadística



Estadística



Componentes

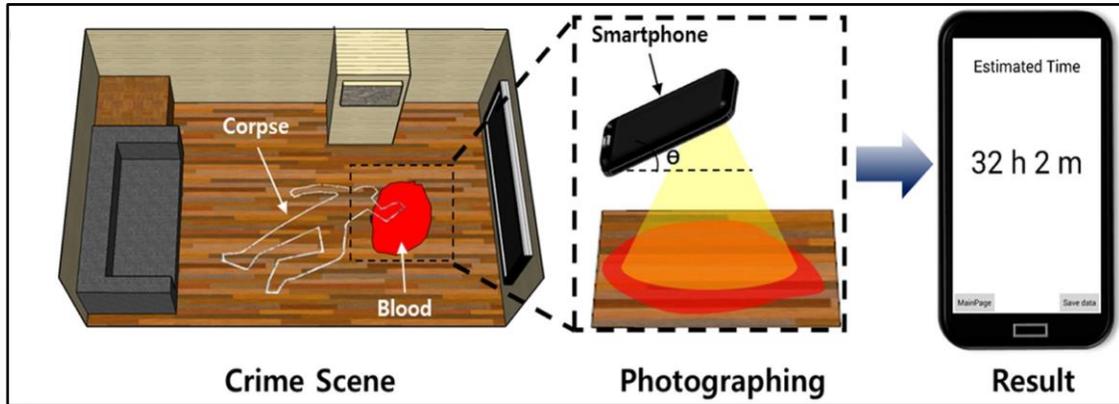


Tipos de análisis



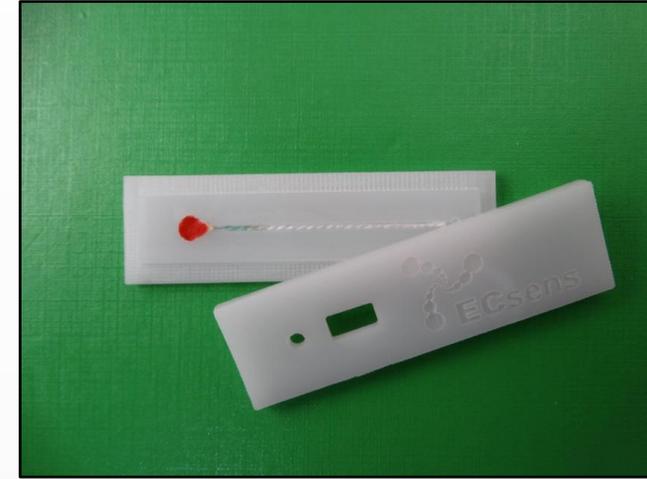
Análisis directo

Estimación del tiempo de una mancha de sangre

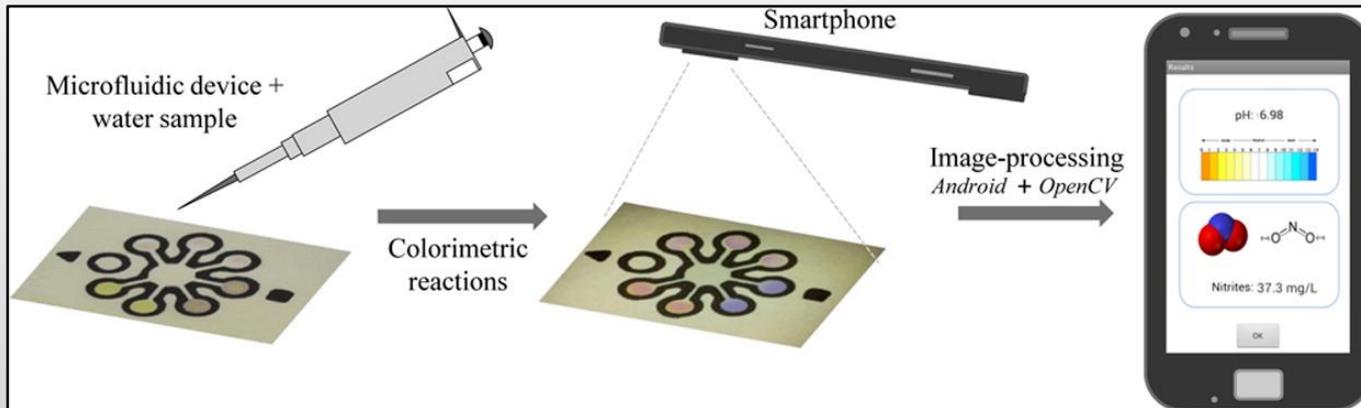


Sensors and Actuators B 243 (2017) 221–225

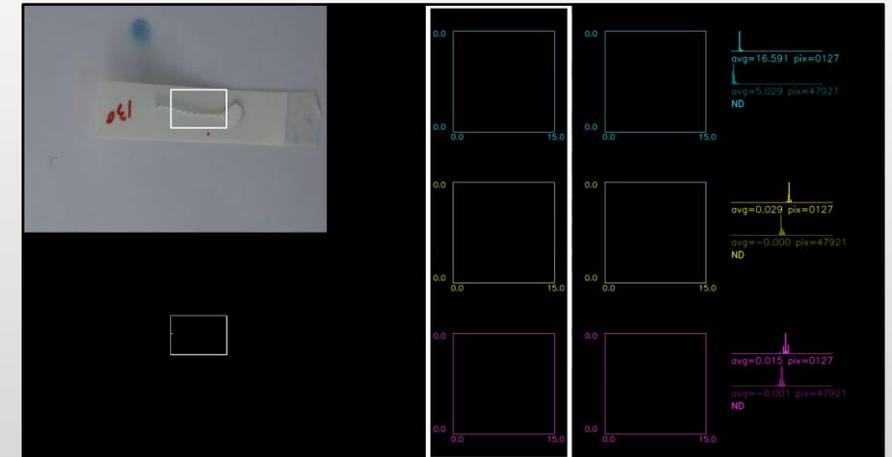
Glucosa en sangre



pH y nitratos en agua



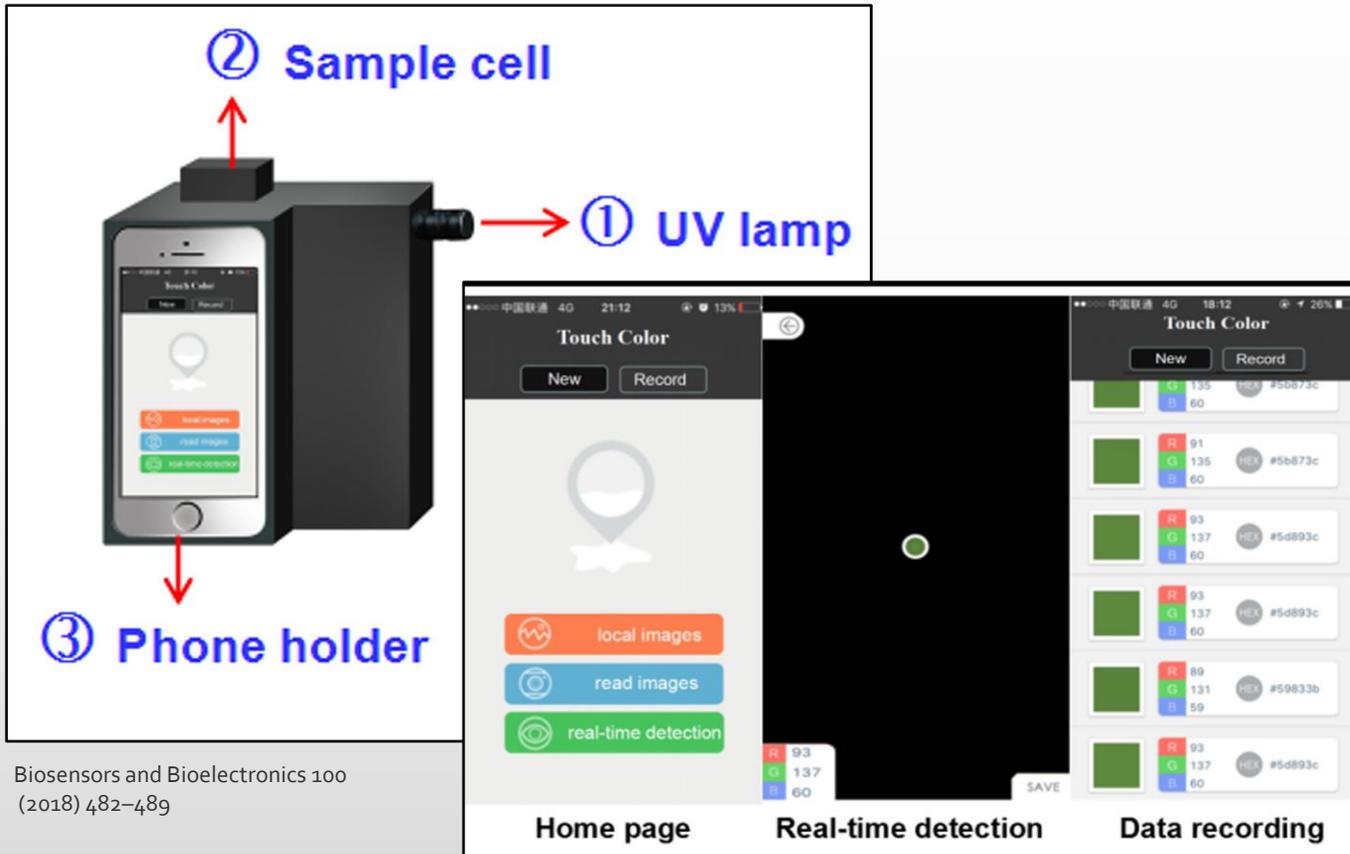
Anal. Chem. 2014, 86, 9554–9562



Biosensors and Bioelectronics 136 (2019) 47–52

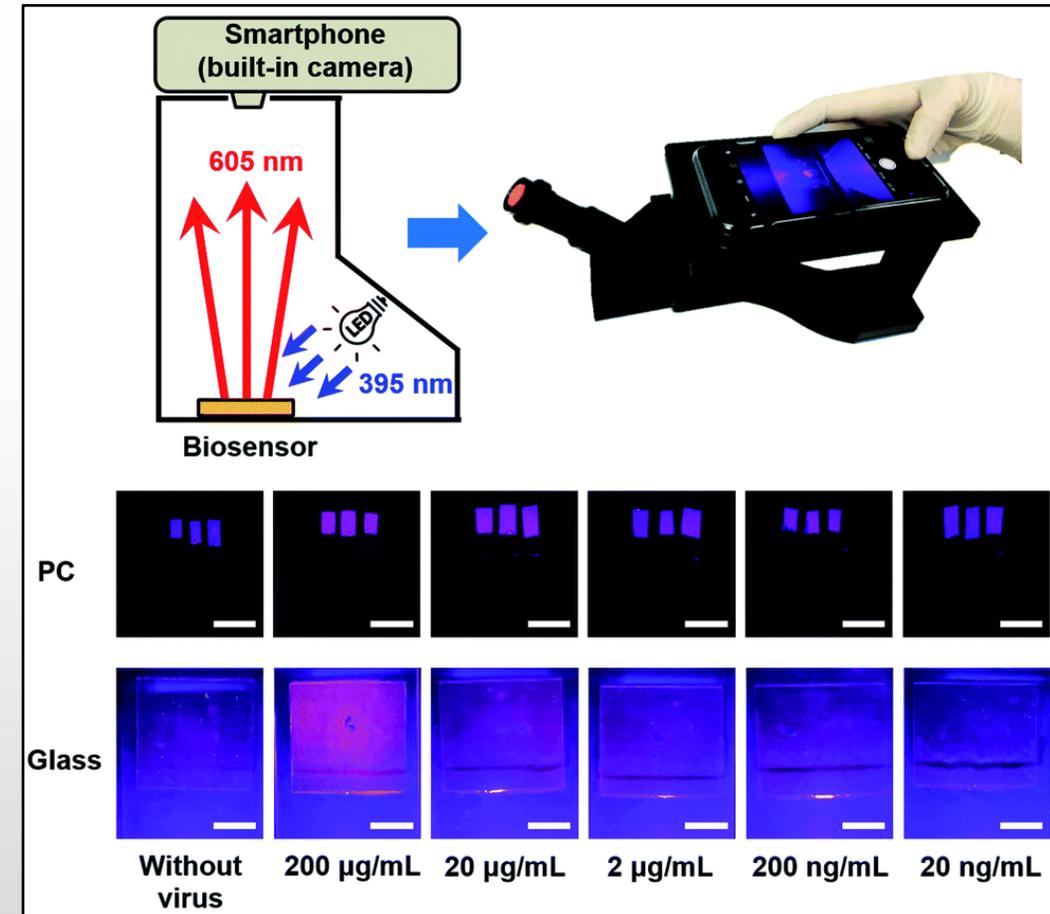
Análisis con soporte

Antibióticos en leche



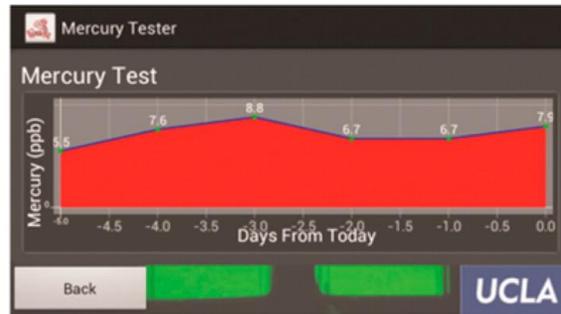
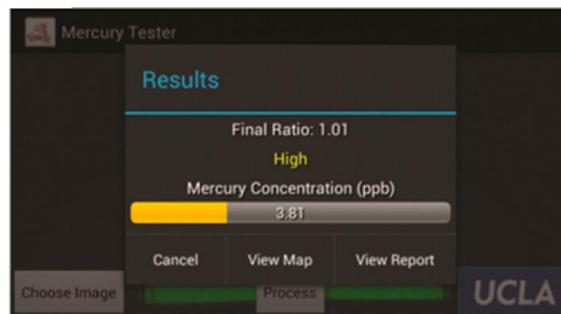
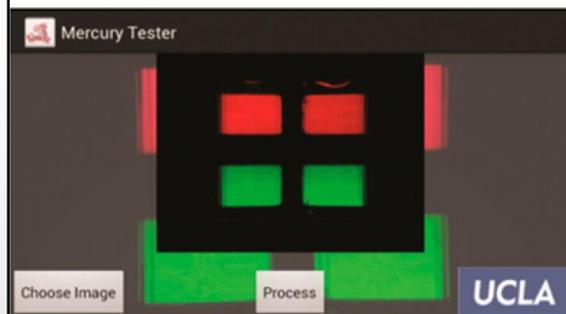
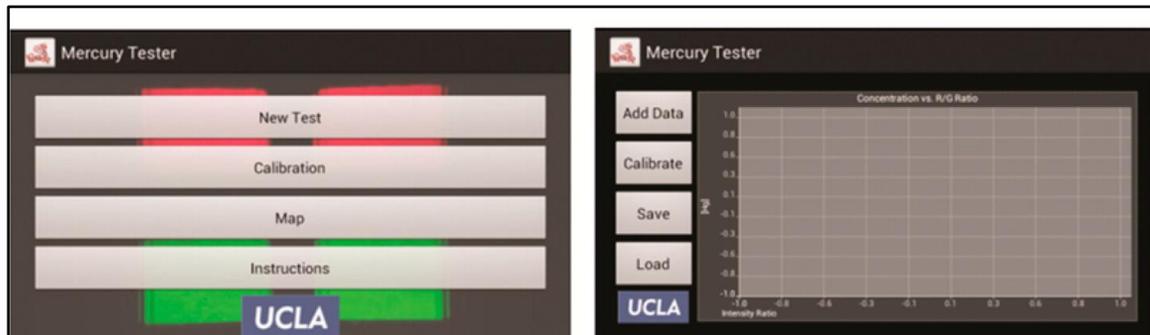
Biosensors and Bioelectronics 100
(2018) 482–489

Virus de la gripe en suero

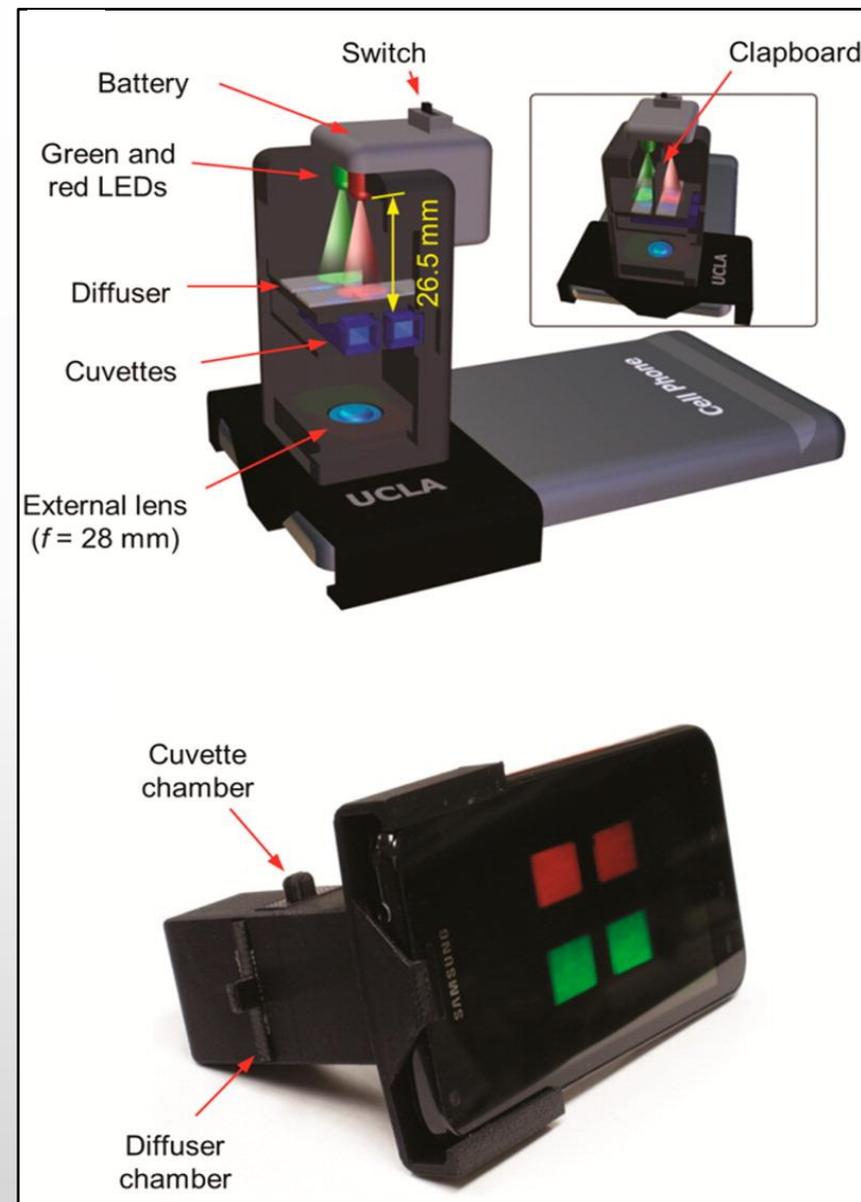


RSC Adv., 2018, 8, 22991–22997

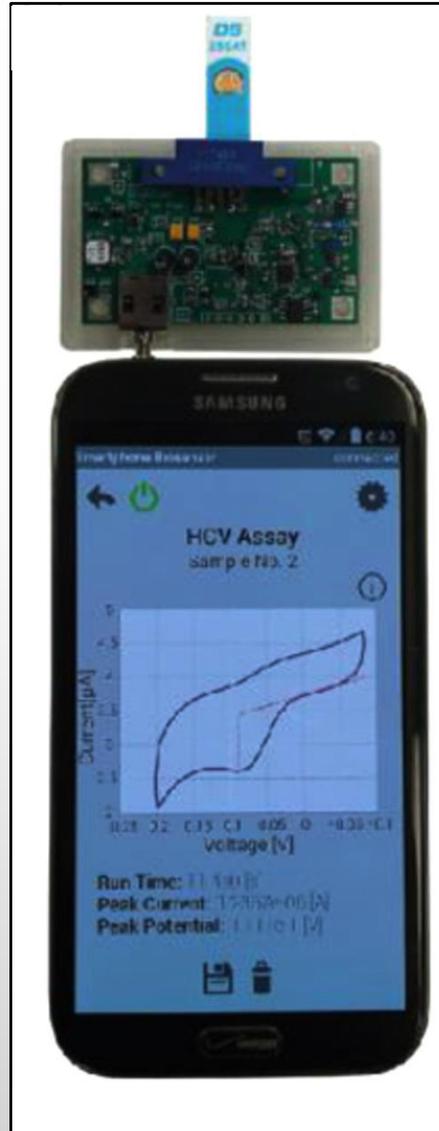
Uso de GPS



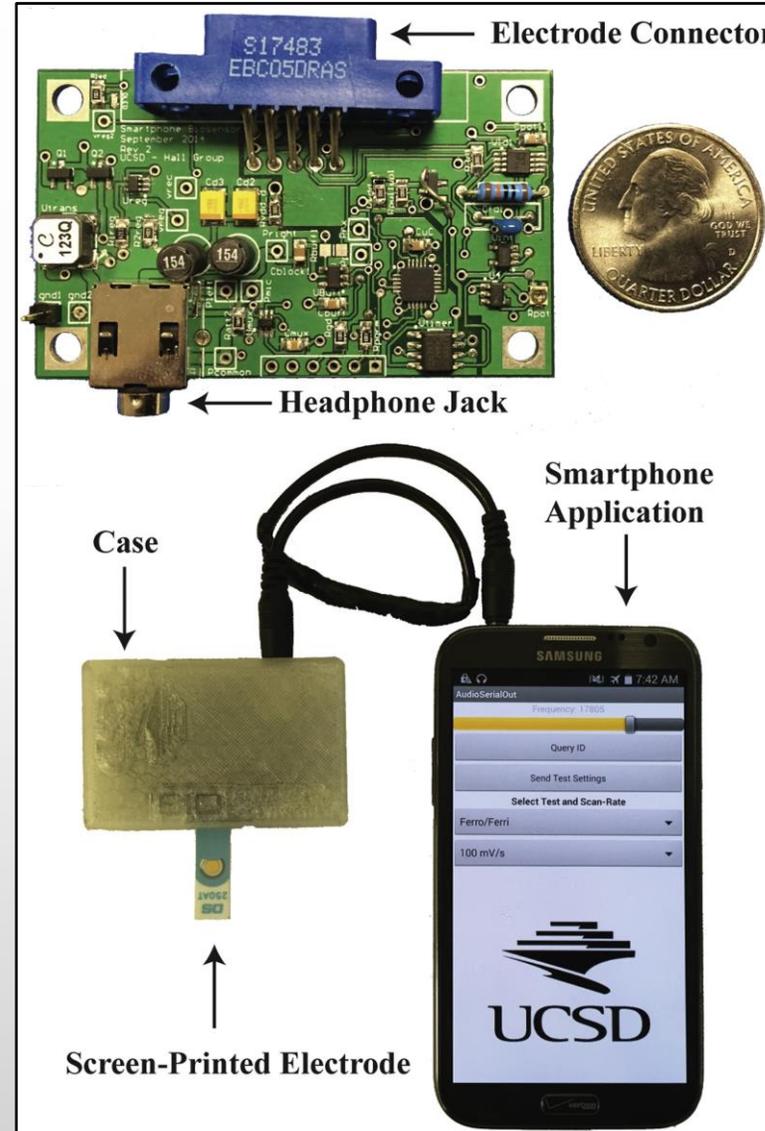
Mercurio en agua



Conexión mini-jack



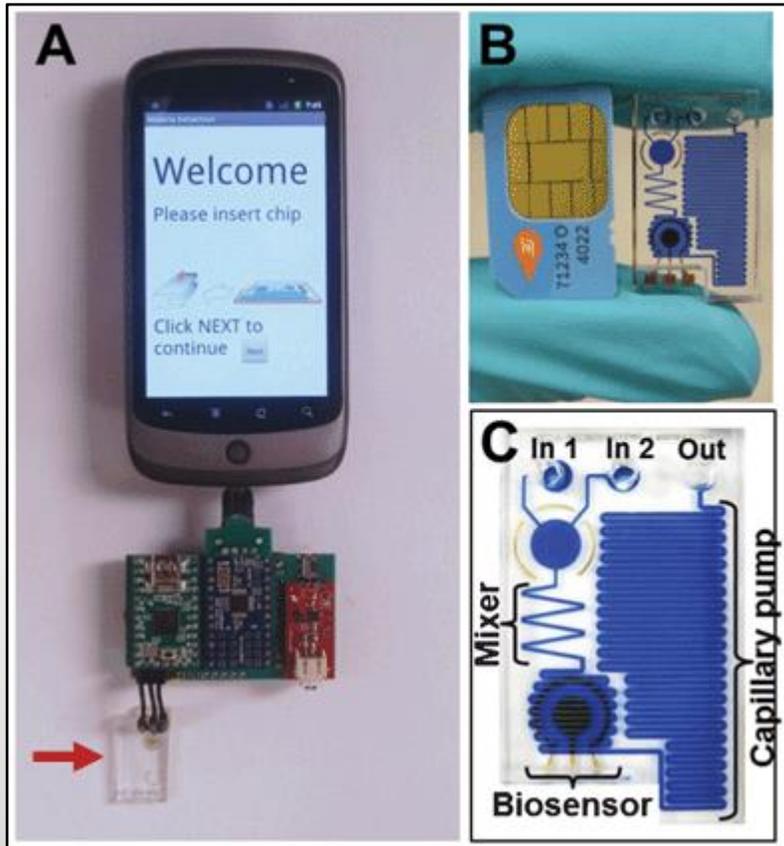
Virus hepatitis C



Biomarcador de infección de pulmón en pacientes de fibrosis quística

Conexión USB

Biomarcador de la malaria



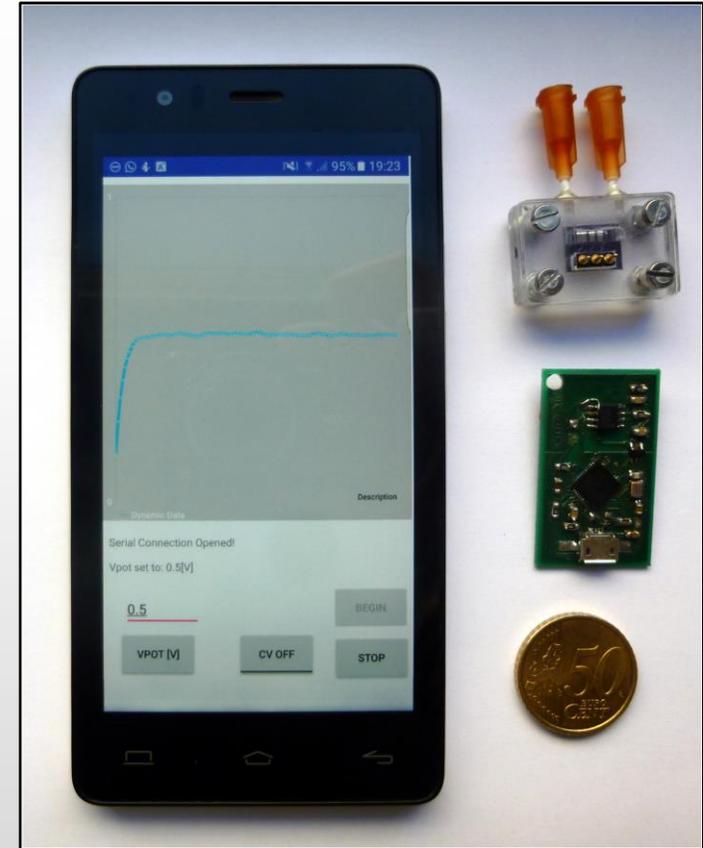
Lab Chip, 2013, 13, 2950

β -ketonas en sangre



Anal. Chem. 2017, 89, 8609-8613

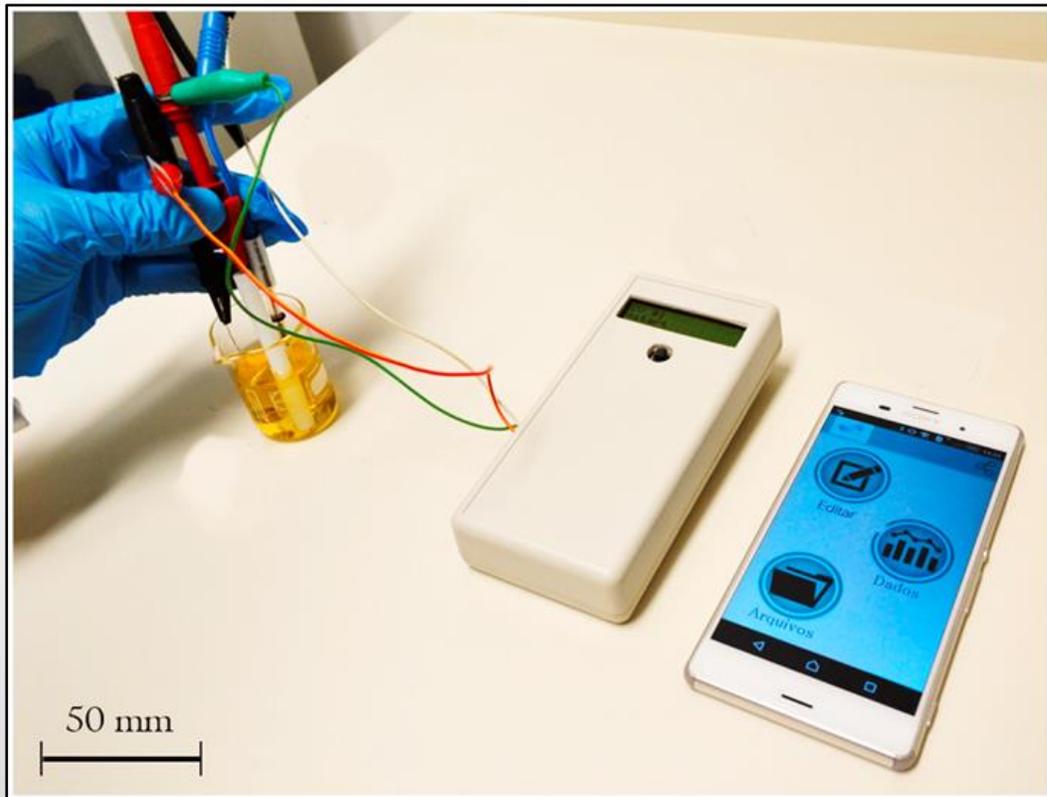
Alcohol en sangre



Biosensors and Bioelectronics 117 (2018) 736-742

Conexión inalámbrica

Bluetooth



Electrochimica Acta 219 (2016) 170 –177

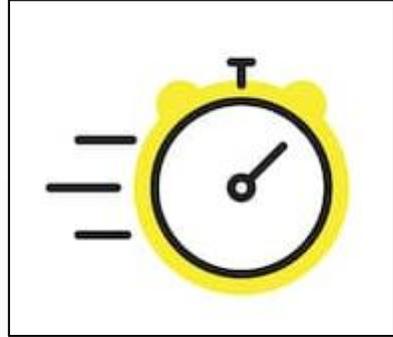


Sistema de análisis pasivo controlado por un smartphone a través de enlace NFC

Biosensors and Bioelectronics 141 (2019) 111360

Conclusiones

- Sencilla
- Rápida
- In-situ
- Sin necesidad de experiencia en análisis



Gracias por su atención



Desgranando 
Ciencia 6

CTQ2016-78754-C2-1-R