

X-MAP/X-MAG Luminex Technology Platform

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CIBER de Fisiopatología de la Obesidad y Nutrición (CIBER-OBN)

30 de maig, Girona

Multiplex Service to determine a broad spectrum of analytes throughout high performance arrays.

Analyte panels designed to study inflammatory state, cardiovascular risk, neurodegenerative, endocrine, renal, and bone diseases, among others.

Possibility of custom design.

The laboratory provides the necessary equipment and experience to perform the analyses of the different biomarkers available on the market for the X-MAP/X-MAG technology®.

Determinations in serum, plasma or other biological samples.

Features of X-MAP/X-MAG® technology:

Reduced sample volume

From 25 to 200 µL per panel (optimised in each case)

High spectrum of determinations

Increasing offer of analyte panel by different companies

Minimisation of sample manipulation

Reduction in the number of error sources

Reduction in the response time

Minimum three fold faster than a conventional ELISA

Reduction in the cost of analysis

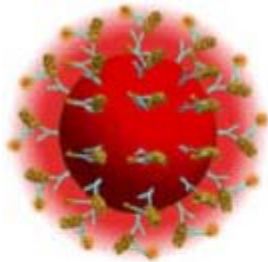
Optimisation of the budgets for the objectives of the studies

Quality Assurance in each service

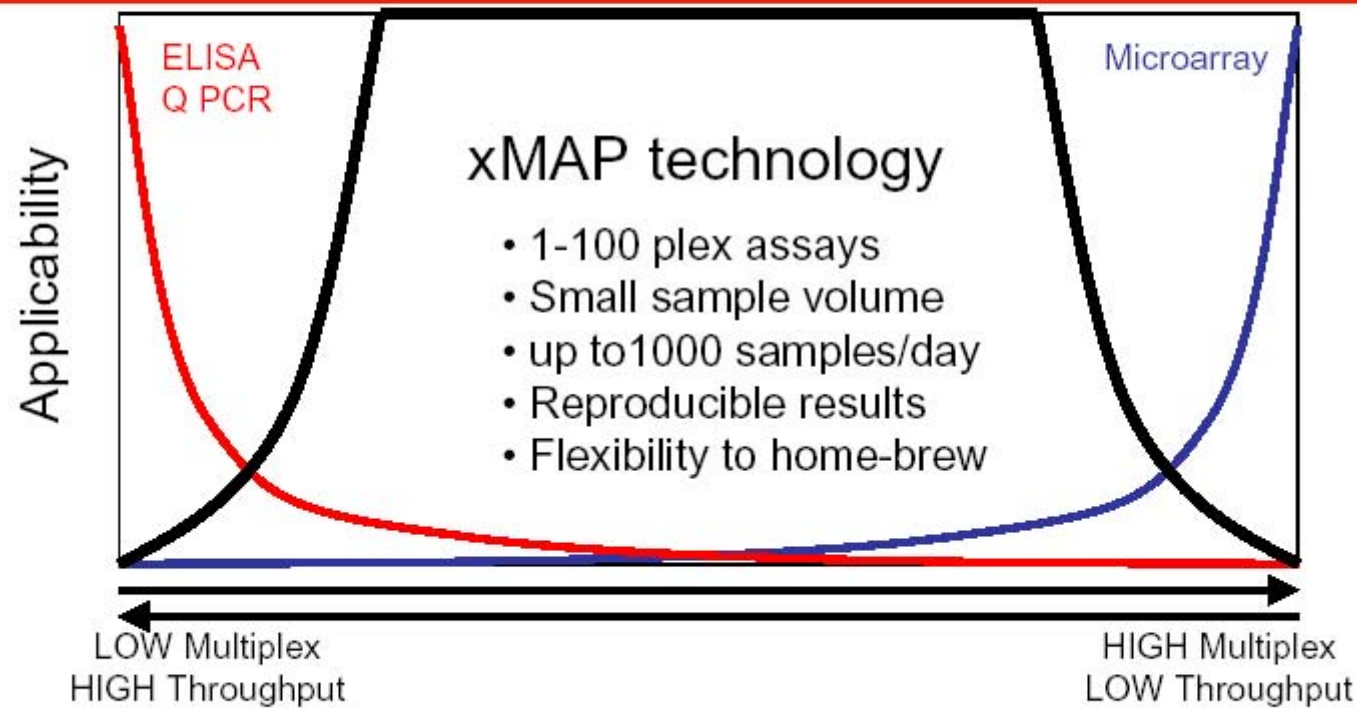
Assessment of the panel selection: (available volume, specimen type, high sensitivity,...)

Optimisation and validation of the analysis (impresicion calculation...)

FLEXMAP3D

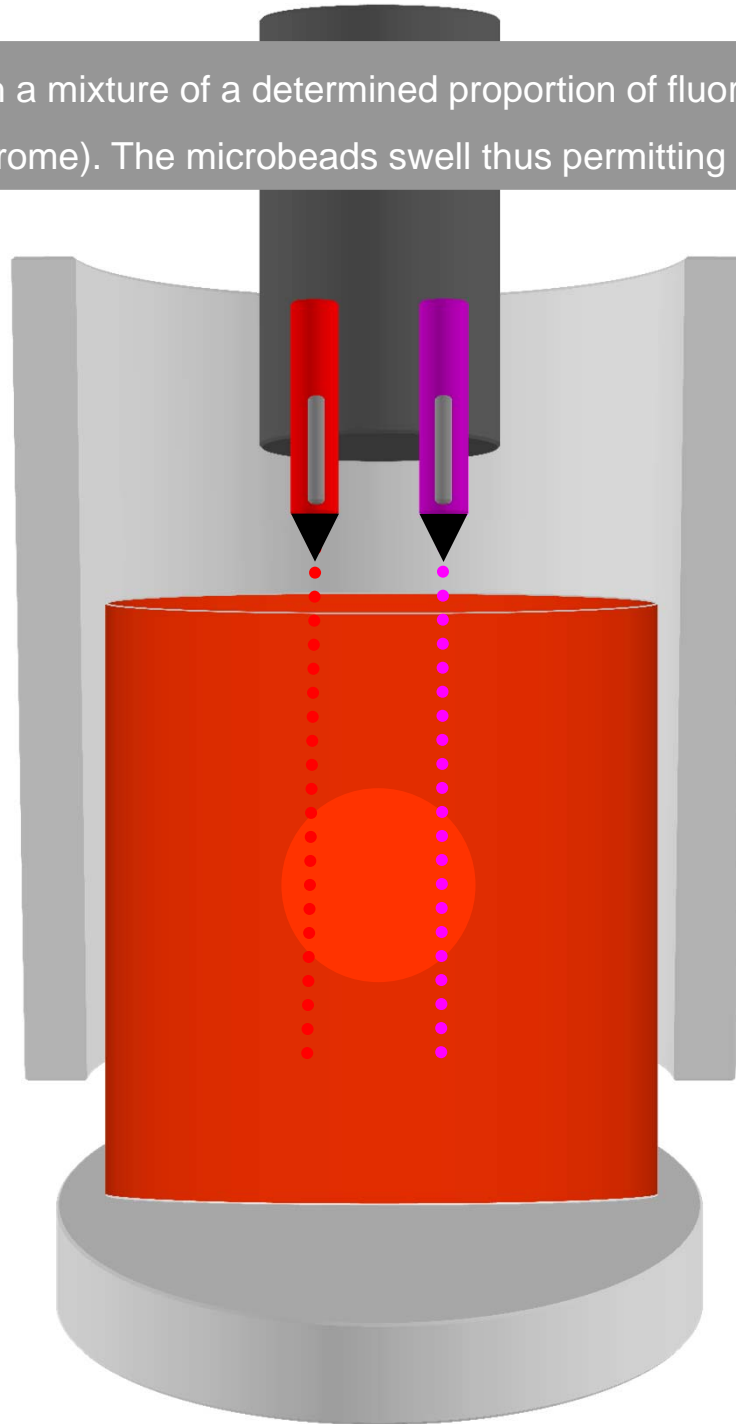


Platform Strengths

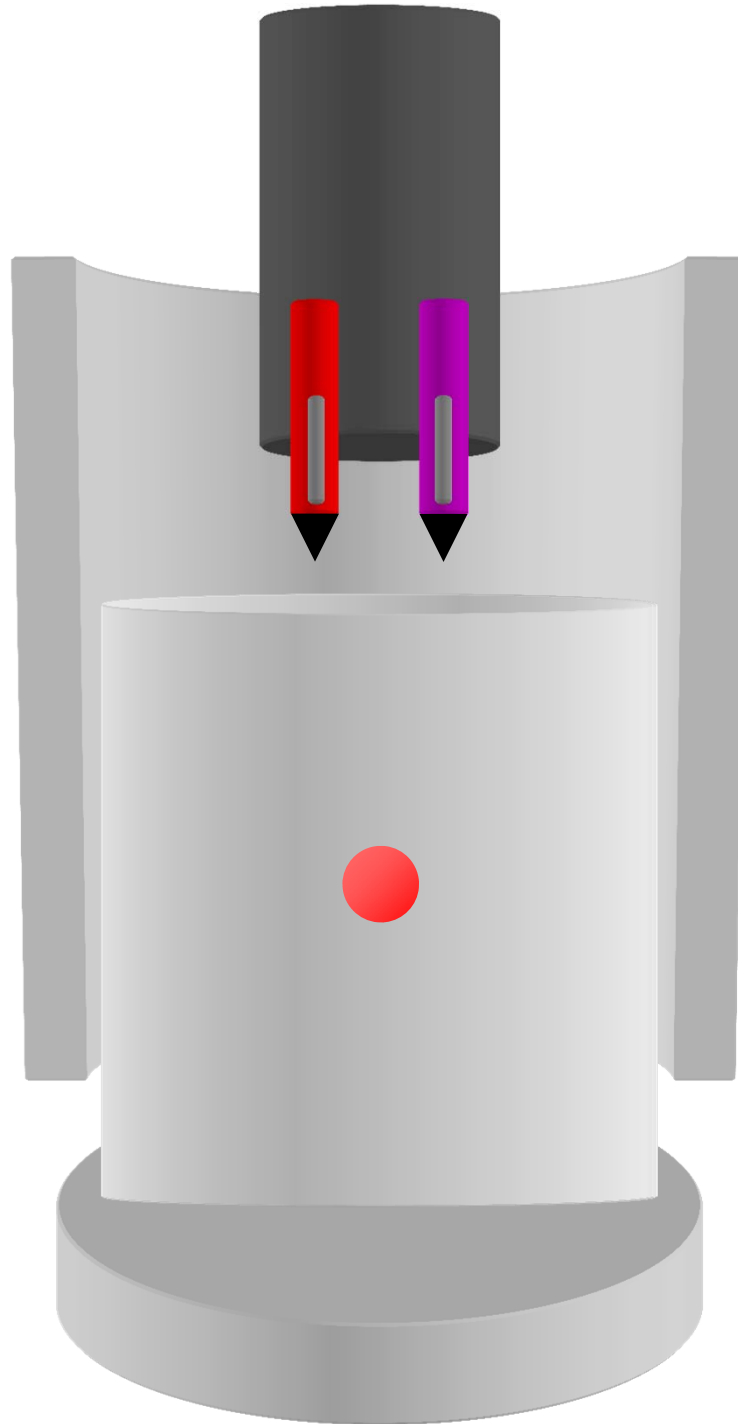


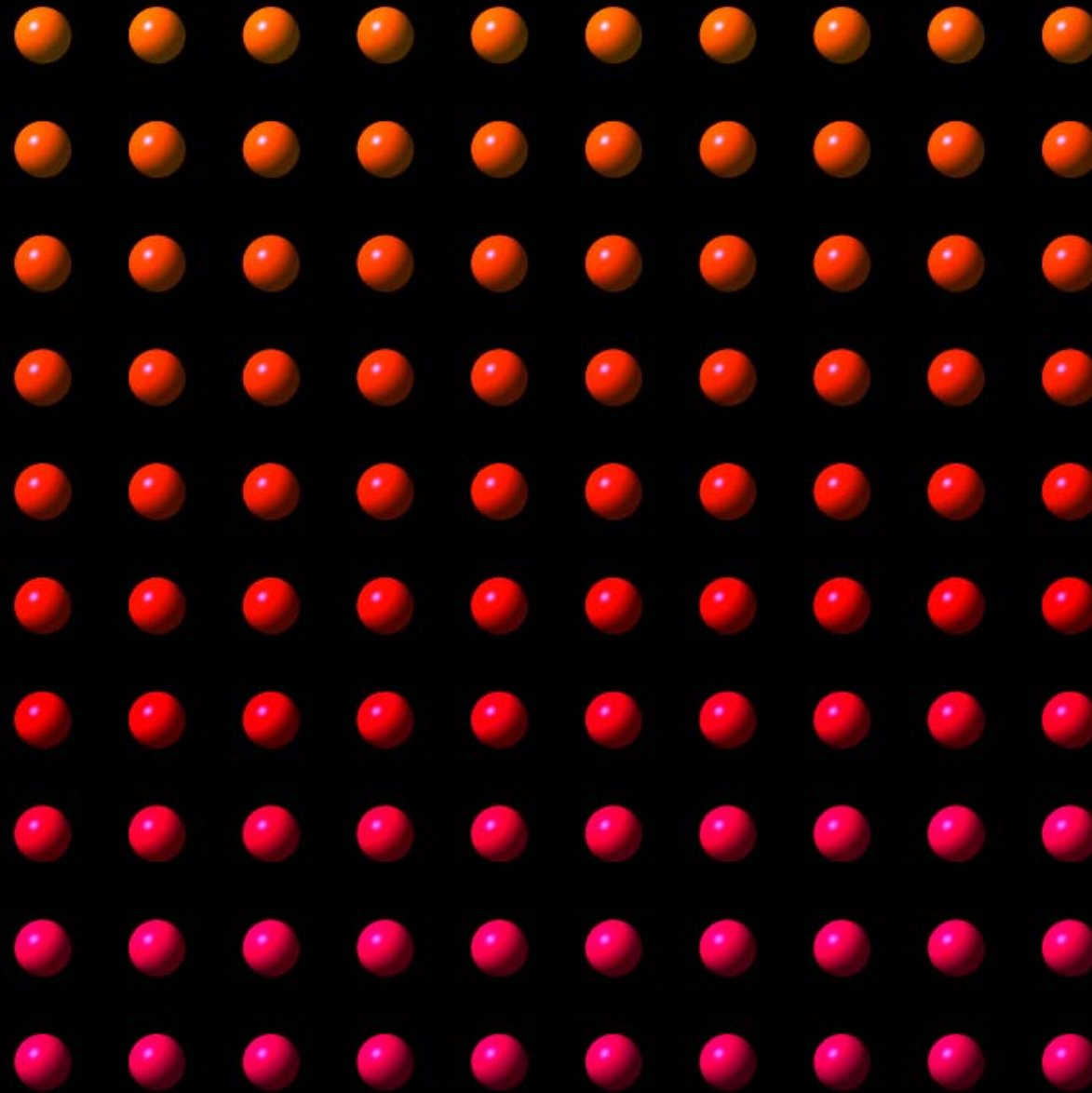
Luminex

The microbeads are dyed with a mixture of a determined proportion of fluorescent colourings (one red and other infrared fluorochrome). The microbeads swell thus permitting the colours to penetrate



After the dying the
beads returns to its
original size

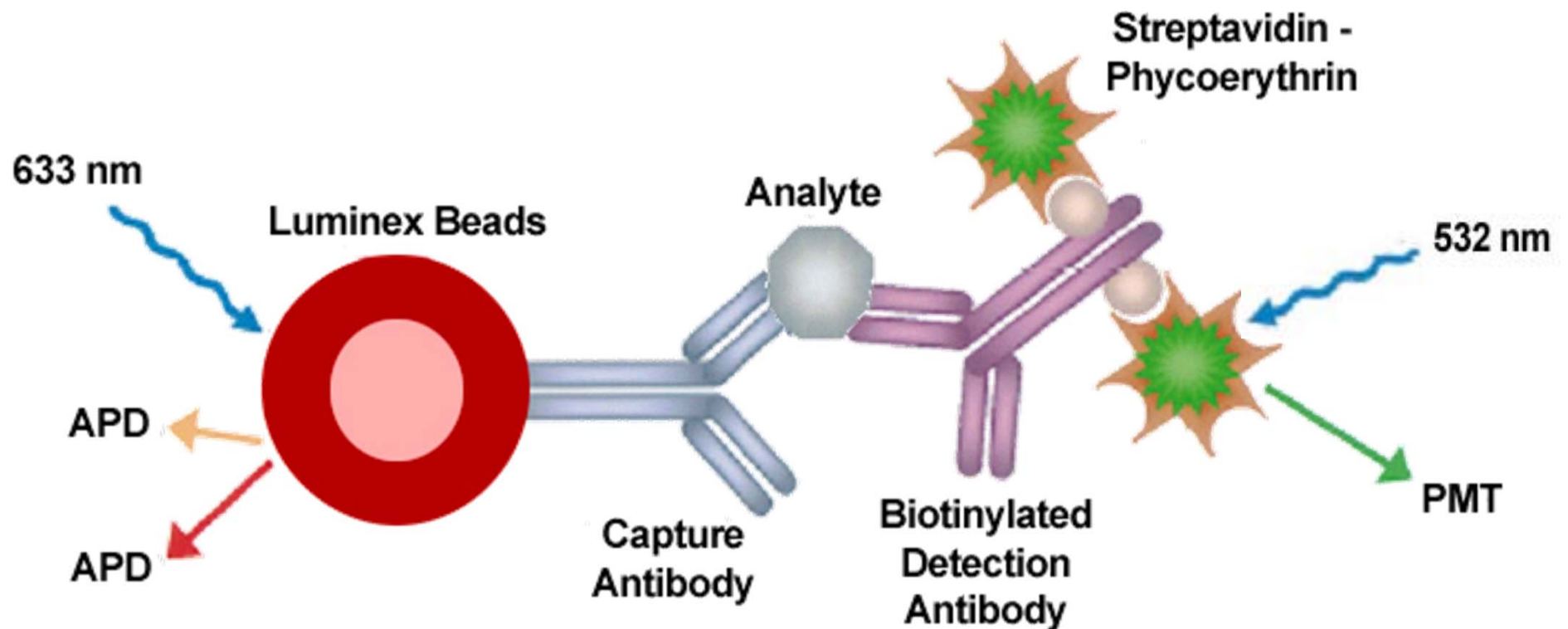




100 groups of different coloured microbeads

The proportion of the internal colourings indicates the microbead from 1 to 100.
Dyed antibody resulting from the sandwich formation shows there has been a joining of the
antigen and antibody

Tecnología xMAP™



The beads fluorescence and the dyed antibody are measured by two lasers and flow cytometry methodology

