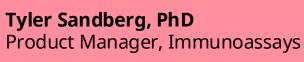


Multiplex made effortless

the technology behind Mabtech EYRA™







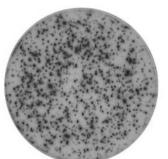


Pol del Aguila Pla AI and Image Scientist, Qamcom

Our assays

We develop optimal monoclonal antibody pairs for sandwich assays

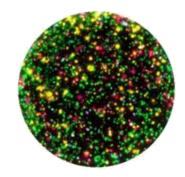
ELISpot IFN-y



Each spot is the footprint of a responding cell

FluoroSpot

IL-22, IFN-y, IL-5, IL-17A



Multiplexed ELISpot

FociSpot

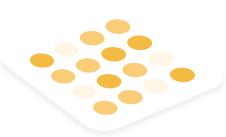
Influenza foci



Virusinfected cells

ELISA

IFN-y



Analyte concentration

EYRAplex

29+ analytes



Bead-based multiplex

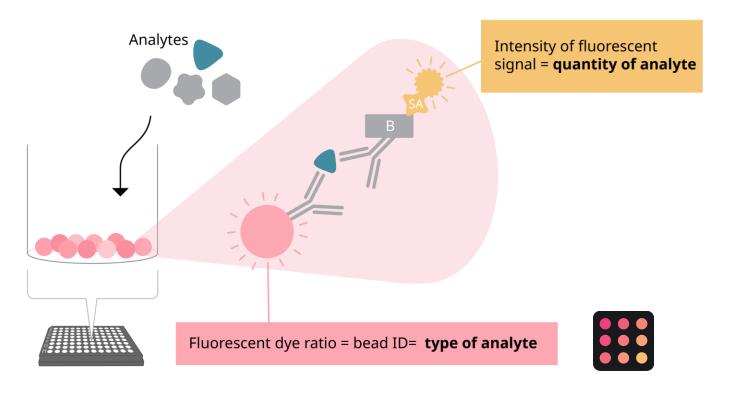


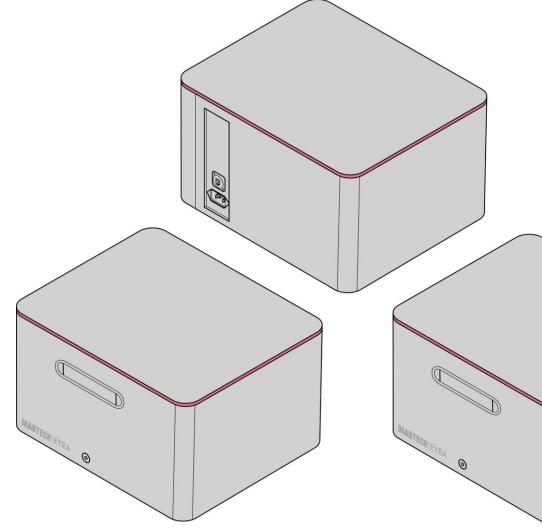
IRIS 2 | ELISpot, FluoroSpot, FociSpot
ASTOR 2 | ELISpot



The Mabtech multiplex solution

A new bead-based multiplex platform – assay and instrument





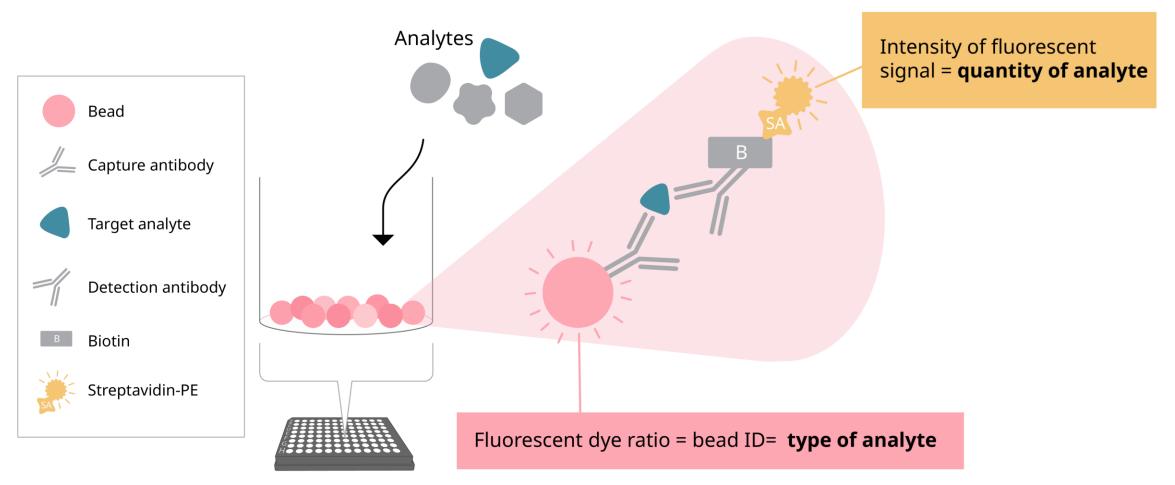
EYRAplex

Mabtech EYRATM



The assay – EYRAplex

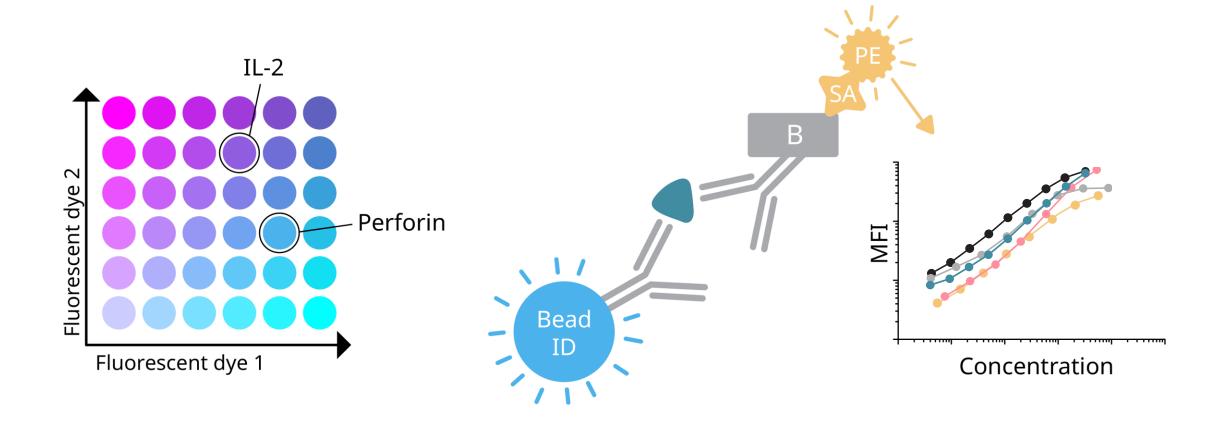
Magnetic beads with optimized antibody pairs and protein standards





The assay – EYRAplex

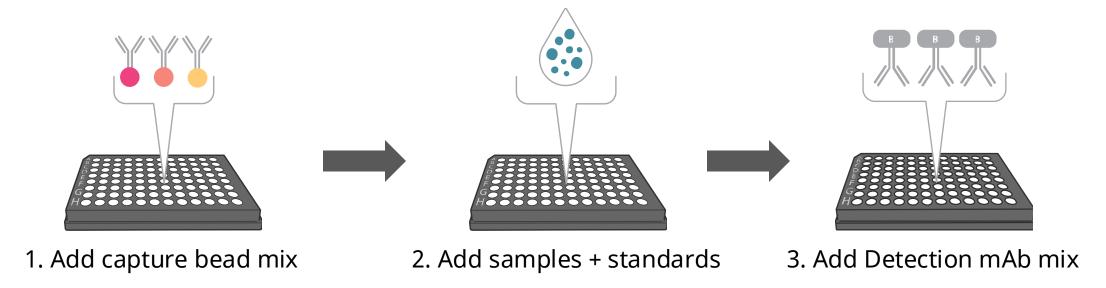
30+ distinct bead IDs and corresponding PE signals

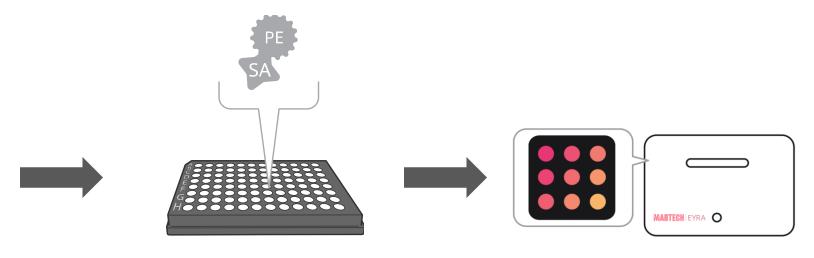




EYRAplex step-by-step

Anyone can multiplex





4. Add SA-PE

5. Data acquisition



The assay – EYRAplex

The mAb pairs you trust, now in multiplex

Sample type and volume: **25 µl** serum, plasma, cell supernatant



Kit includes:

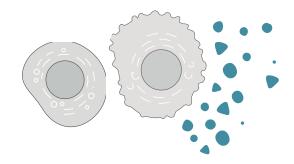
- Standard mixes
- Capture bead mixes
- Detection mAb mixes
- Streptavidin-PE
- Assay buffer, diluents, wash buffers
- Black 96-well plate with lid and adhesive covers

Designed for **EYRA** and works with most flow cytometers

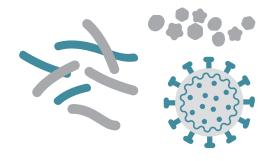


The EYRAplex panels

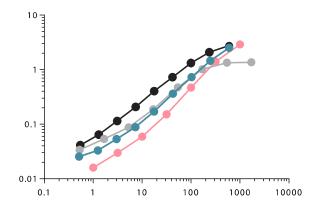
A broad range of inflammatory and immune monitoring panels



- Th1/Th2 panels: 7-, 10-, and 18-plex
- Th17/Th22 panel: 13-plex
- Proinflammatory panels: 8- and 12-plex
- T reg panel: 12-plex
- *In vitro* cytokine release panel: 8- and 15-plex
- Chemokine panel: 6-plex
- Cytokine panel: 29-plex



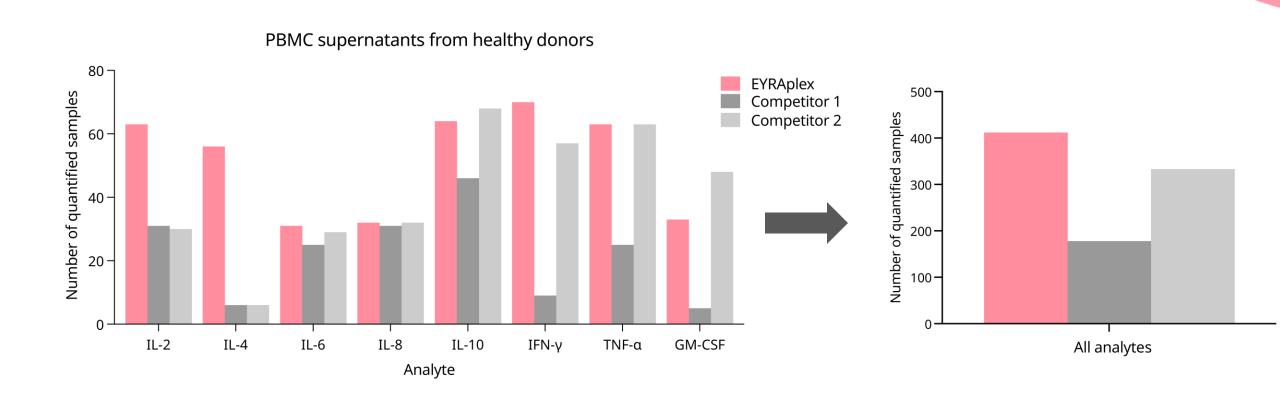
- Cytokine storm: 20-plex
- Viral panel: 13- and 18-plex





How does EYRAplex measure up?

Highly sensitive mAb pairs make highly sensitive assays



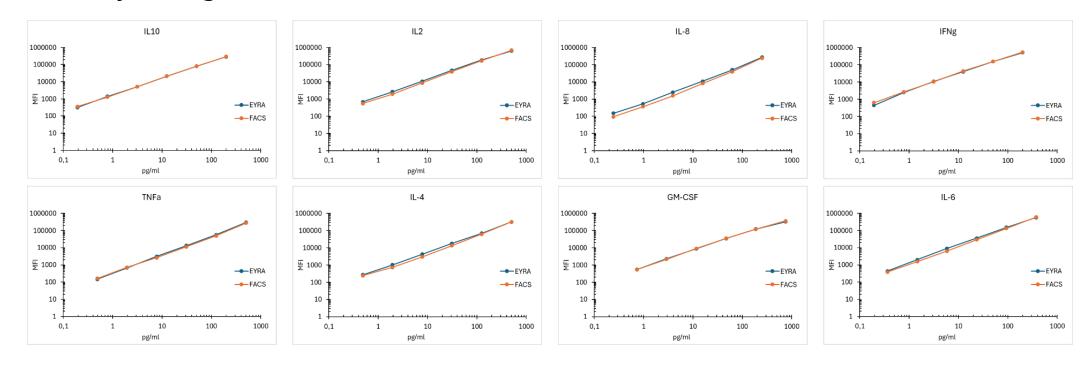
EYRAplex on par and often more sensitive than competitors



EYRAplex assays are validated on EYRA and flow cytometry

Sensitivity and accuracy no matter what

- For the smoothest and fastest data acquisition, we recommend EYRA
 - Insert plate, press read, and enjoy your data
- EYRAplex kits perform just as well with most flow cytometers
 - Red and yellow-green/blue lasers needed





The instrument – Mabtech EYRA

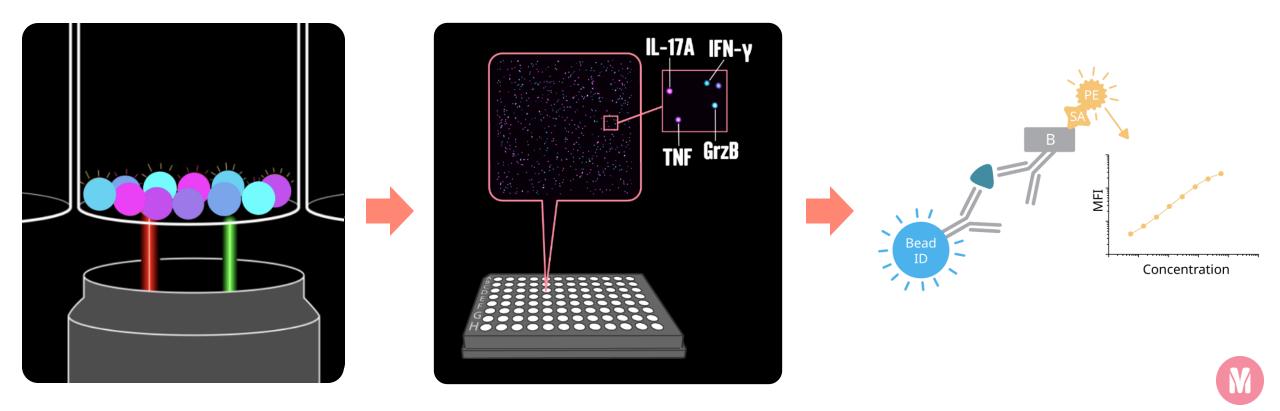
Multiplex made effortless



The instrument - Mabtech EYRA

New, simple analysis of bead-based multiplex assays

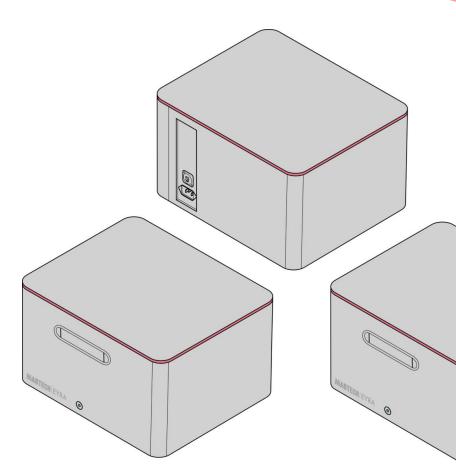
- Confocal microscopy-based acquisition
- Bead complexes are imaged from below after excitation with the laser system
- RAWsphere™ algorithm ensures highly accurate bead identification and corresponding PE signal



Mabtech EYRA: a fluidics-free experience

No headaches related to the maintenance of a flow-based system

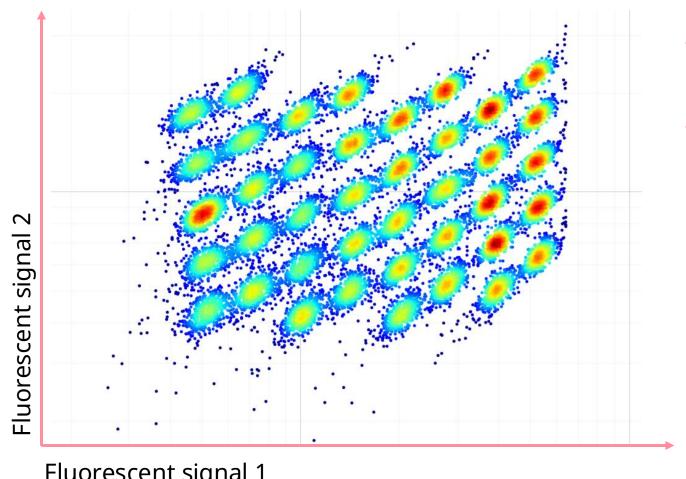
- Reading EYRAplex on EYRA means:
 - Sample stays in the well; no-contact analysis
 - Worry-free experience, no babysitting
 - No clogging, no sheath fluid or waste
 - Plug-and-play experience
 - True walk away acquisition, ~15 min read time
 - No start-up or shutdown procedures





Growing plex numbers with Mabtech EYRA

40 bead populations and counting



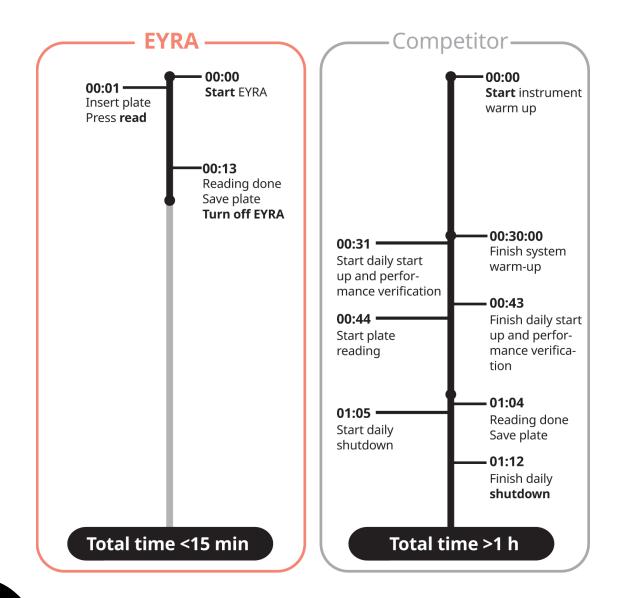
- Map of 40 bead populations acquired on Mabtech EYRA
- Add assay-specific gates in Opal, linking bead populations to the associated analyte





Mabtech EYRA will save you time

Get your plates read before others even begin!





:::: qamcom

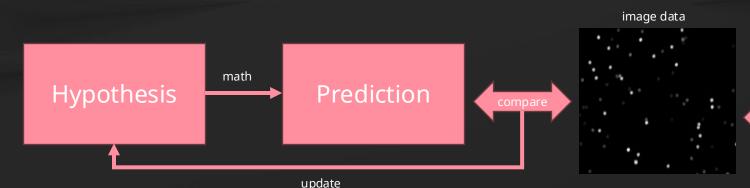
MABTECH EYRA - A SINGLE-PURPOSE CONFOCAL MICROSCOPE

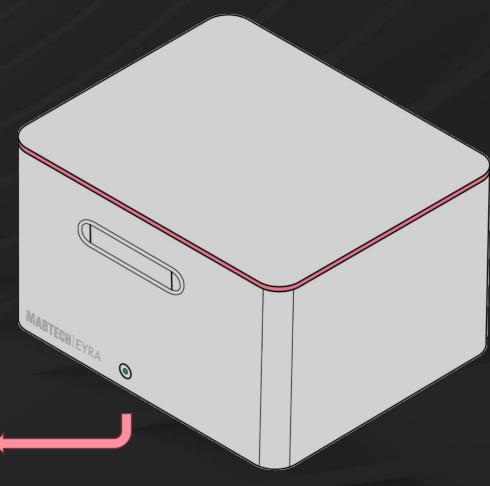
- Own mechanics: X/Y and Z control for microscope motors
- Own electronics optimized for ultra-fast data-acquisition chain
- Laser-scanning technology
- Own high-speed FPGA electronics
- Patent-pending µm-accuracy autofocus technology

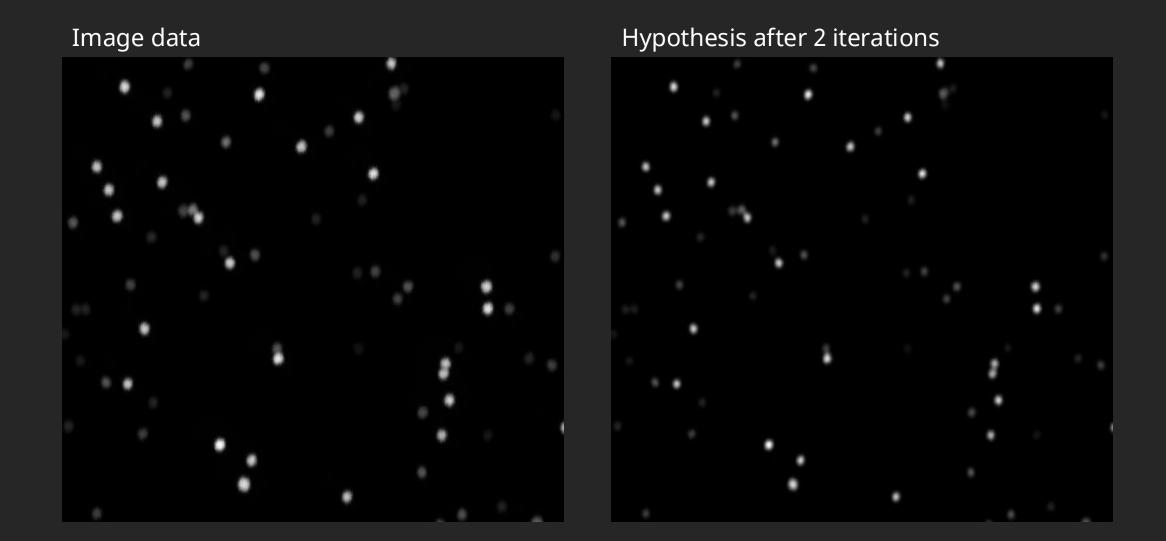


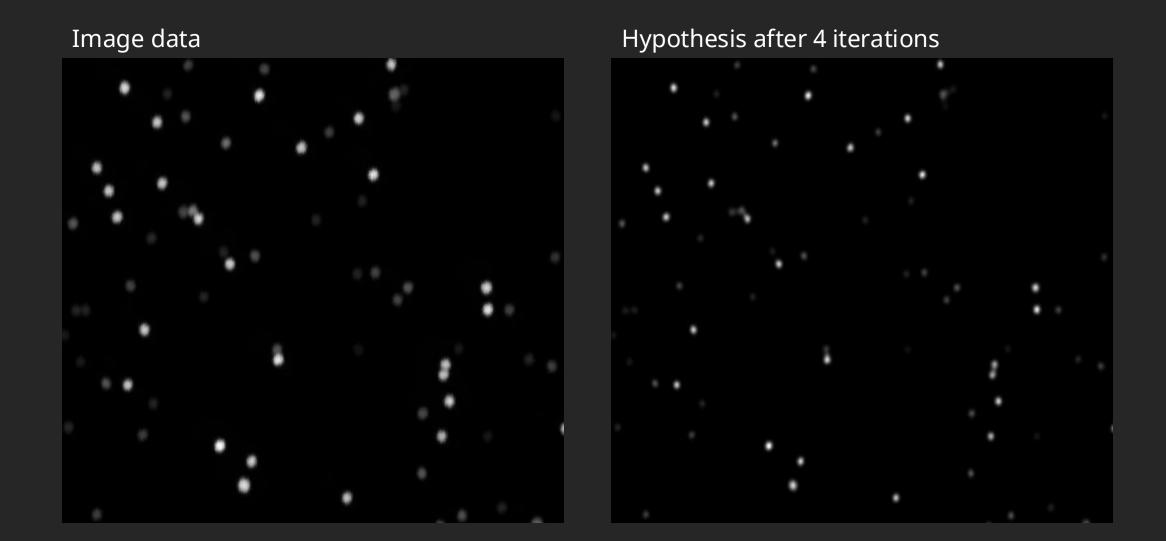
RAWsphere[™] - MATHEMATICAL MODELING YIELDS ROBUST DATA

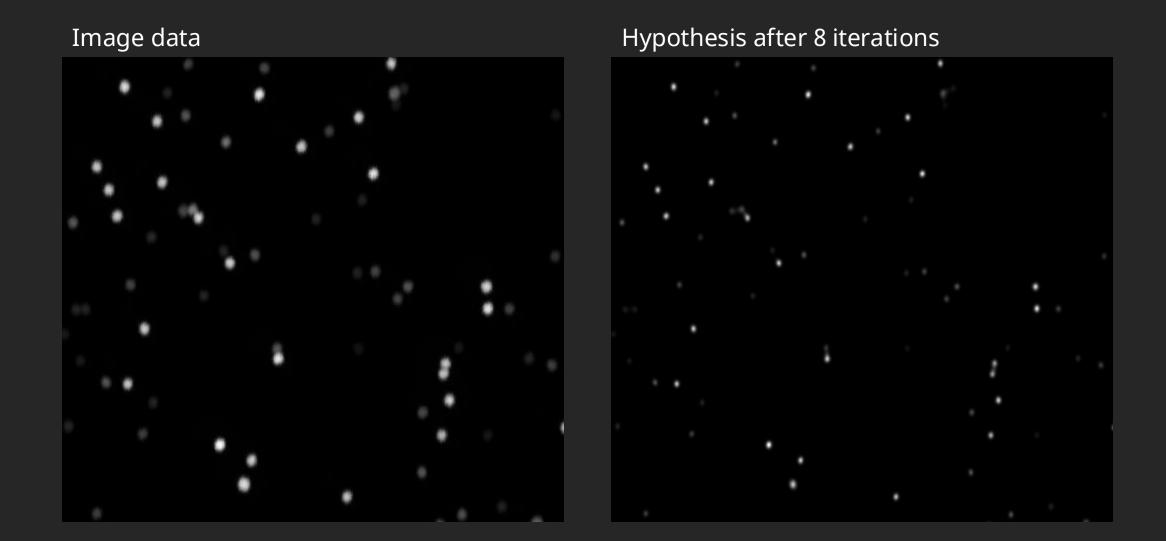
- Patent-pending RAWsphere[™] algorithm
- Mabtech beads for ultra-precise data
- Mathematical modeling of bead fluorescence
- Inverse problems: Mathematical data extraction





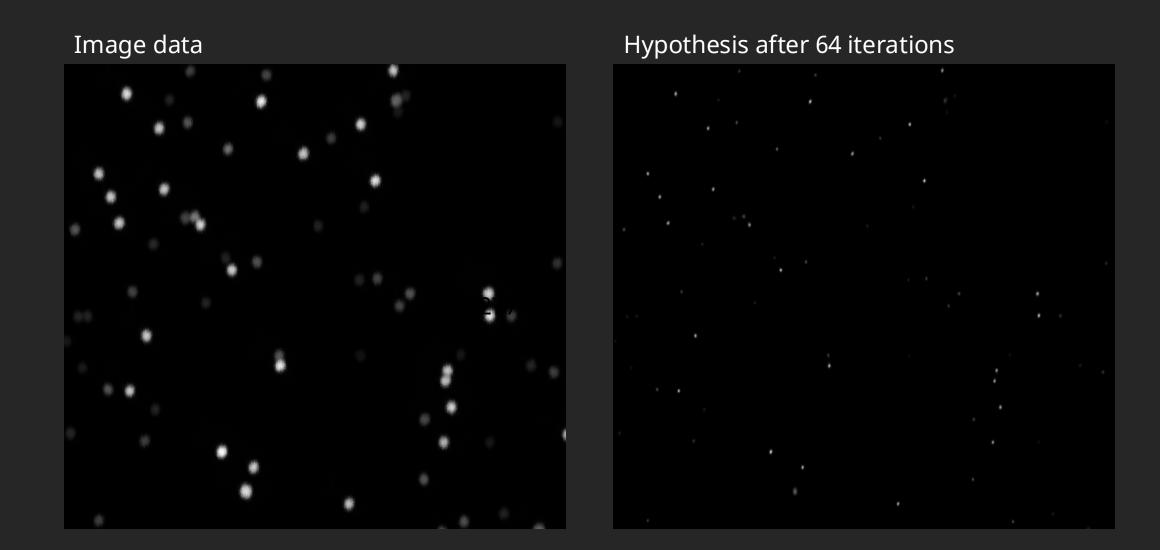


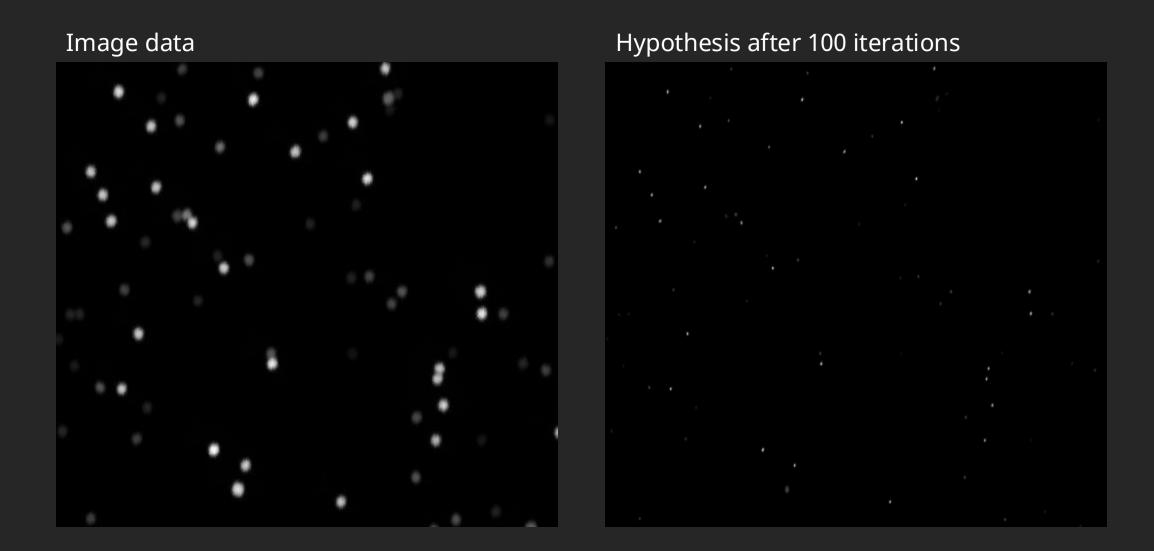






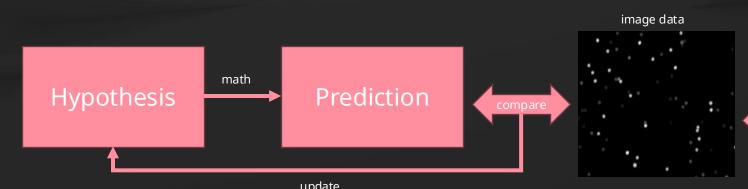


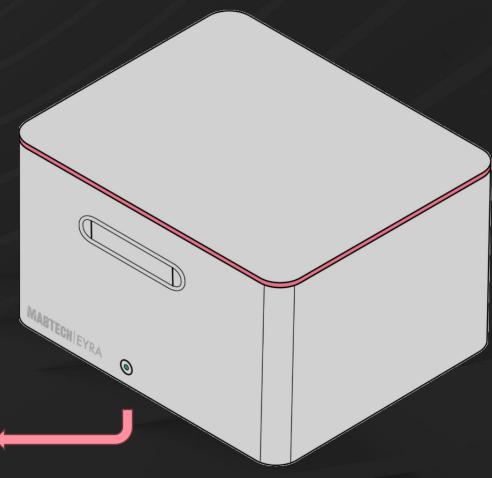




RAWsphere[™] - MATHEMATICAL MODELING YIELDS ROBUST DATA

- Inspired by the successful RAWspot[™] algorithm for ELISpot and FluroSpot
- Resolves bead clusters effortlessly
- Impervious to bright-to-dim bead interactions
- Conceptualized in collaboration with Prof. Joakim Jaldén







Benefits of EYRAplex kits

	EYRAplex	Competitor
Magnetic bead- based assay	√	√
Mabtech's trusted mAb pairs	√	*
Goodbye heterophilic interference	√	*
Compatible with EYRA and most flow cytometers	\checkmark	*



Benefits of Mabtech EYRA

	EYRA	Competitor
Detect >30 analytes	√	√
Fluidics-free: no sheath fluid, no waste		*
Start, read and shutdown in <20 minutes	√	*
Export multiple plates into one Excel file		
Worry-free coffee during readout	√	*

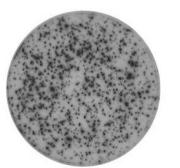


Assays & instruments designed for you

Your trusted source for accurate and sensitive immunoassays

ELISpot

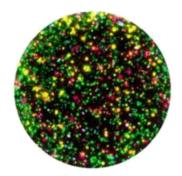
IFN-y



Each spot is the footprint of a responding cell

FluoroSpot

IL-22, IFN-y, IL-5, IL-17A



Multiplexed ELISpot

FociSpot

Influenza foci



Virusinfected cells

ELISA

IFN-y



Analyte concentration

EYRAplex

30+ analytes



Bead-based multiplex

IRIS 2 ASTOR 2



EYRA





Mabtech EYRA

Multiplex made effortless

