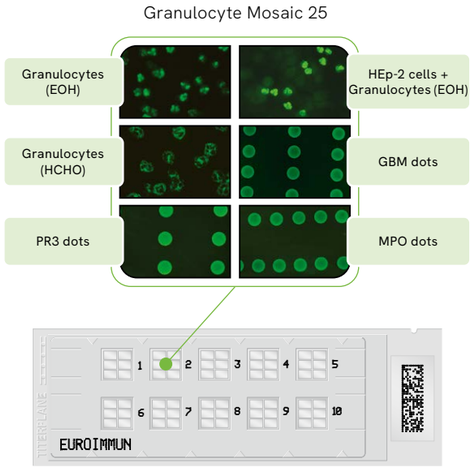
euroimmun
From Revvity

System solutions for full IFA automation.

Multiparameter analyses in IFA

- The BIOCHIP technology enables the combination of different substrates in BIOCHIP Mosaics for parallel analyses in only one test field
- Matrix-coded slides with up to 50 test fields for maximum security and traceability in laboratory diagnostics
- Example “Granulocyte Mosaic 25“: the perfect combination for your ANCA diagnostics
  - Ethanol (EOH)- and formalin (HCHO)-fixed granulocytes for differentiation of vasculitis from chronic inflammatory bowel diseases (CIBD)
  - Combination of HEp-2 cells and granulocytes on one BIOCHIP allows differentiation between ANA and ANCA
  - Monospecific confirmation of results by means of PR3-MPO antigen dots (EUROPLUS) and detection of anti-GBM antibodies by means of GBM antigen dots (EUROPLUS)



EUROLabOffice 4.0 – the control centre for your laboratory

- Automated data processing and communication without transmission errors
- Automatic creation of electronic worklists
- Reporting support: day’s results for a patient, patient history, search function, documentation and archiving
- Optimisation of existing laboratory processes, various expansion modules available
- Interface to laboratory management system (LIS) for bidirectional data exchange and optimal connection to Euroimmun devices

EUROLabPolaris – intelligently connected IFA diagnostics worldwide

- Digital connection of your laboratory sites and IFA specialists on a local to global scale
- Secure and flexible access to your IFA data quickly and clearly presented via web browser
- Maximal standardisation of the entire evaluation process thanks to centralised classification and evaluation of IFA results
- Significant reduction in sample logistics and reporting times

UNIQO 160 – All-in-one automation

- Fully automated system for processing and evaluation of IFA for up to 160 samples and 18 slides per run with flexible assay selection
- Brilliant fluorescence images due to the integrated high-quality microscope unit with automatic triple revolver
- Quick loading as well as correct assignment and traceability of samples, reagents and slides via barcode identification

Sprinter XL – Fully automated incubation for medium to high throughput

- Up to 240 samples and 30 slides per run
- Barcode identification of samples and slides
- Simultaneous washing of all reaction fields by flooding of the slides
- Four washable needles

EUROLabWorkstation IFA – Fully automated incubation for high throughput

- Over 700 samples and 750 reaction fields per run
- Barcode identification of samples, reagents, labware and slides
- High throughput of over 200 analyses per hour possible
- Standardised washing of 50 reaction fields by means of the unique MERGITE! washing technology
- 10 washable needles
- Automatic mounting

EUROPattern Microscope – Fully automated microscopy

- Fully automated image recording for on-screendiagnostics for a variety of substrates
- Extremely fast system: up to 500 reaction fields in less than 2 hours (13 seconds per image)
- Automated registration of slides by DataMatrix codes for error-free traceability
- Comparable IFA images on all EUROPatternMicroscopes due to unique calibration with the integrated fluorescence normal
- Different autofocus objectives (20 x; optional 10 x, 40 x) for optimal image recording characteristics
- Classification of image data as positive or negative, including pattern and titer proposals, with the AI-enhanced EUROPattern Classifier software

EUROPattern Classifier – AI-enhanced software

The EUROPattern Classifier is a software compatible with EUROLabOffice 4.0 that automatically generates a result proposal (including titer calculation) for a constantly growing number of substrates. Its deep convolutional neural networks, a process of artificial intelligence, were intensively trained during the development of the software. This enables the algorithm to classify fluorescence patterns reliably and quickly.
All data obtained for the substrates and dilutions are consolidated into one result proposal for each patient.

Software-based evaluation support for a wide range of substrates:

ANA diagnostics

- HEp-2/HEp-20-10 cells
- Crithidia luciliae

Diagnostics of coeliac disease

- Liver (monkey) IgA
- Oesophagus (monkey) IgA

Diagnostics of autoimmune liver diseases

- Liver (rat)
- Kidney (rat)
- Stomach (rat)
- VSM47 cells (rat)

ANCA diagnostics

- Granulocytes
- HEp-2 cells + granulocytes (EOH)
- EUROPLUS antigen dots

Diagnostics based on antigen-expressing cells

- Neurology: e.g. AMPA 1/2, NMDAR, GABAR B1/B2, LGI1, CASPR2, DPPX, aquaporin-4 and MOG
- Nephrology: PLA2R and THSD7A

Find out more at www.euroimmun.com or contact us directly at: www.euroimmun.com/contact

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