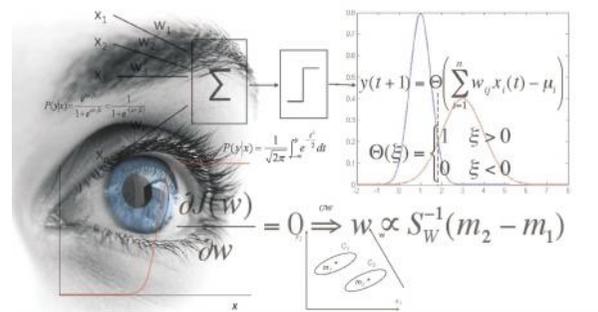


CyclopusCAD s.r.l.

c/o Incubatore d'impresa ARCA,
Viale delle Scienze, Building 16
I-90128 Palermo, ITALY

Tel.: +39 09123899131
E-mail: info@cyclopuscad.com
Website: www.cyclopuscad.com

beyond your eyes



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the third eye for imaging

The Immuno CAD

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Immuno CAD

Over the last years, the role of laboratory analysis as a support for diagnosis and autoimmune diseases monitoring has grown constantly and significantly. For many autoimmune diseases, the diagnosis result is given by the detection and the measuring of the auto-antibodies in the patient's serum.

The Indirect ImmunoFluorescence (IIF) method is the most used laboratory test for first level analysis.

The automatic auto-antibody detection could be a valid answer to the continuously growing request for autoimmune diseases diagnostic tests, making thus the IIF test more rapid and attendable.

Within this context, CyclopusCAD developed **CyclopusCAD® Immuno**, a product designed to support the diagnosis of autoimmune diseases through IIF images analysis.

THE PRODUCT

CyclopusCAD® Immuno aims at becoming an integrant tool in immunological laboratories to:

- ▶ improve sensitivity thus providing a crucial information to the automatic slide scanning software, in order to efficiently select the areas of interest;
- ▶ improve specificity and provide the physician with the suitable support for false positives percentage reduction.

The product has been designed thanks to the suggestions and contributions of physicians, continuously collaborating with our Company, and has been trained over the largest database of IIF images, composing a Gold Standard dataset with more than 1.000 items.

Moreover, the academic roots of the CyclopusCAD spinoff and the participation to national and international projects, enabled the acquirement of huge and various databases of key importance during the phases of training and final adjustment of the product.

CyclopusCAD® Immuno takes a significant competitive advantage on the market, over its few present competitors, thanks to its performance and its unique features.

FEATURES

CyclopusCAD® Immuno is an IVD software device (*In-vitro diagnostic medical device*), based on a pattern detection/classification Expert System, providing diagnosis support information (such as fluorescence intensity, pattern typology) to the physician and playing the role of a "second reader" for autoimmune diseases detection.

CyclopusCAD® Immuno is part of the normal workflow for collecting data related to the patient's serum on which the IIF test was performed and automatically analyzes the intensity and the structure of the fluorescence signal for each sample.

CyclopusCAD® Immuno can be also integrated in a dedicated Workstation equipped with our Lite Laboratory Information Management System (**CyclopusCAD® Immuno LIS Lite**), presenting, through a Graphical User Interface, the following features:

- ▶ Data Acquisition
- ▶ Medical Reporting
- ▶ Aided Diagnosis
- ▶ Database Consultation

PATENT

"Method of template matching for images analysis"
CyclopusCAD s.r.l. Italian application n. (IT) PA2012 a000019.