

History

Girard, Annette

Data

Structure

Scans

8

Cells

20

VSlide

Files

2

Counters

Cell Gallery

Cell List

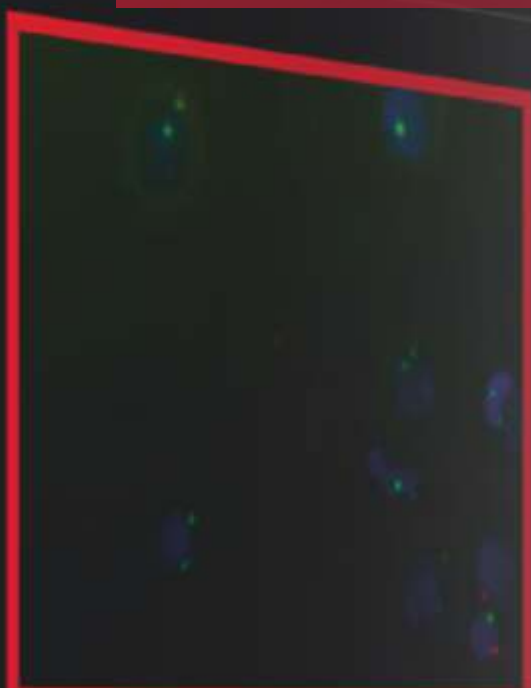
Combined Karyograms

Whole Case

Karyotype

Case and Image Data Management

Neon:
a Technology
integrated in
Metafer and Ikaros



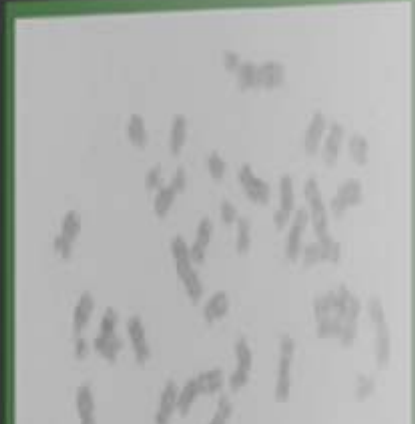
020 1
Cu SpotCount • SI 3 Sc B



006 5
Cu - • SI - Sc A



024
Cu - • SI -





YOUR ENTIRE WORKFLOW

Neon is a technology for the flexible and consistent management of image and case data. It is designed to collect data from a variety of sources and integrate them into an efficient and well-structured workflow. The technology integrated in all MetaSystems installations ensures that all relevant information is available wherever it is needed. The highest data



DATA AND CASE ORGANIZATION



SECURITY AND TRACEABILITY

Seamless Integration

Neon integrates tightly with existing workflows and Laboratory Information Management Systems (LIMS) to optimize data processing and throughput.

Access Control

Neon features a multi-level permissions management that allows fine-tuning of user groups and roles.

Case Presentation

Neon collects case data from external sources and presents them along with own data and images in a fully customizable, user-friendly way.

Records and Logs

Neon consistently documents all processing steps and configuration changes in case history entries and audit trails.

AT A GLANCE

security standards ensure that critical content such as patient records is managed securely and accessible only to authorized users. Thanks to its powerful and flexible workflow settings, Neon fits seamlessly into existing routines and can be applied to the entire range of MetaSystems imaging application packages.



Workflow Overview

Neon displays and monitors all aspects of the laboratory's entire routine workflow. Color-coded markers help users track the status of cases.

Process Optimization

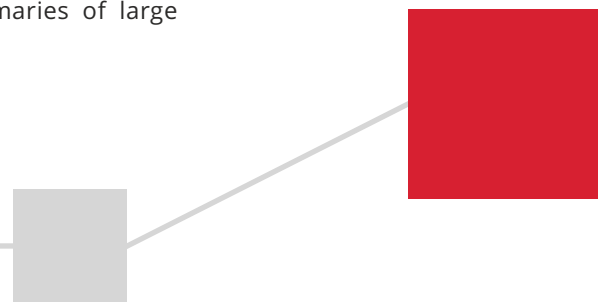
Workflows can be individually configured and automated. Sub-workflows allow the recording of specialized and optional steps.

Easy Reporting

Neon comes with a powerful reporting function, which includes a graphical report template editor.

Comprehensive Statistics

Neon includes a statistical query module that helps users create quick and comprehensive summaries of large case collections.



MAIN WINDOW

NAVIGATION BAR

A click on the magnifier icon opens the NAVIGATION SIDEBAR. This part of the Neon screen allows the user to search for cases, navigate to recent or bookmarked cases, and to get direct access to the settings, to the search view, and to the trash.

MESSAGE CENTER

The envelope icon is the gateway to the MESSAGE CENTER, a sidebar that allows text messaging to single users, selected user groups, or to all users in the current Neon network.

MAIN VIEW TABS

Different case data VIEWS are accessible via the tab bar on the left of the Neon window. Case data views provide in-depth data summary functionality such as statistics queries, a sophisticated case search, grouping of cases, and the option to check and solve data integrity problems.

CASE LIST

The cases of the selected DATA FOLDER are listed in a configurable table. Colored labels indicate the current workflow state for each case. All other data fields can be shown as separate, sortable columns. That way, the relevant information is right at hand when starting Neon.

The screenshot shows the Ikaros Neon 6.3.4 interface. On the left is a sidebar with navigation options: Dashboard, Cases, Create Case, Statistics, Search, Groups, Events, and Problems. The 'Cases' view is active, displaying a table of cases. The table has columns for Case ID, Specimen, Created, and Patient No. The case with ID 050219-21 is highlighted in red.

Case	Specimen	Created	Patient No
040115-21	Lymphocytes	20.10.2010 11:06:25	855694
041880-21	Bone Marrow	15.09.2020 16:58:55	898966
049853-21	Bone Marrow	20.10.2010 11:06:25	256887
050118-21	Lymphocytes	15.07.2015 10:02:00	235564
050154-21	Lymphocytes	05.03.2009 09:00:40	100556
050158-21	Umbilical Cord Blood	10.06.2011 12:30:47	885966
050181-21	Abort Tissue	24.11.2020 11:36:44	123456
050187-21	Lymphocytes	16.09.2020 16:10:00	123457
050188-21	Bone Marrow	18.06.2009 11:03:17	558966
050199-21	Lymphocytes	28.01.2007 18:34:07	123458
050202-21	Chorionic Villi	20.10.2010 11:06:26	123459
050207-21	Bone Marrow	30.01.2007 10:43:37	102253
050218-21	Bone Marrow	02.07.2018 16:47:10	856333
050219-21	Chorionic Villi	16.09.2020 16:12:04	778569
050221-21	Bone Marrow	20.10.2010 11:06:25	005520
050222-21	Umbilical Cord Blood	23.01.2003 09:59:32	100552
051589-21	Chorionic Villi	12.04.2006 09:41:20	996345
055569-21	Amnion Cells	18.06.2008 11:21:29	889654

REPORTING

Neon comes with a powerful REPORT ENGINE. Report formats are created with the integrated, graphical report editor. Neon reports may contain data, images, and case statistics. The final report can be send to the printer or saved as PDF file, Microsoft Word™, and to data files (e.g., XML).

CASE LIST FILTERS

Neon users can create their own data FILTER definitions. All filters are accessed through the filter bar above the case table. The case list can be refined by selecting users, workflow states, creation dates, groups... - in principle by every data field that is available.

USERS

Neon manages different user groups and access levels, which can be determined by the administrators. Neon automatically protects data and images against unauthorized manipulation, and a complete case history records every single step of the workflow.

2023-06-07 09:38

Report More

ADM Cytogenetics

MetaSystems

State Specimen

First Name	Last Name	Birthdate	Pat. Group	Gender	Karyotype	Cells	Karyos	Checked	
Thomas	Terwood	09.09.2002	Internal	Male	46,XY	9	9		Open Case
Paul	DeAngelis	12.07.1996	External	Male	46,XY	0	0	ADM	Ikaros / Isis
John	Dorian	12.05.1976	External	Male	46,XY	10	10		Delete
Sunny	Hande	01.03.1978	External	Male	46,XY	155	0		Rename
Peter	Crest	21.02.1968	Internal	Male	46,XY	11	9		Move
Marlies	Müller	21.12.1996	Internal	Female	46,XX	129	1		Copy
Claudia	Barsch	20.08.1986	External	Female	45,X0	3	3		
Bill	Cornerstone	21.10.1985	External	Male	46,XY	0	0	ADM	
Peter	Hemworth	21.05.1936	Internal	Male	46,XY	23	23		
Radja	Ameyn	01.10.1980	External	Female	46,XX	12	9		
Margaret	Atkinson	12.06.1988	External	Female	46,XX	6	3		
Hermann	Testman	15.09.2020	External	Male	47,XXY	9	8		
Peter	Vanguard	11.06.1972	Internal	Male	46,XY	0	0	ADM	
Suzanne	Gerkins	05.03.1999	Internal	Female	46,XX	0	0	ADM	
John	Doe	11.07.1985	External	Male	46,X,-Y[2],+3[2],inv(9)[2][cp2]	6	6		
Barbara	Cowell	21.04.2001	Internal	Female	46,XX	1	0		
Jada	Halliworth	18.10.1988	Internal	Female	46,XX	13	8		
Zoe	Porfiri	16.11.2002	External	Female	46,XX	18	1		

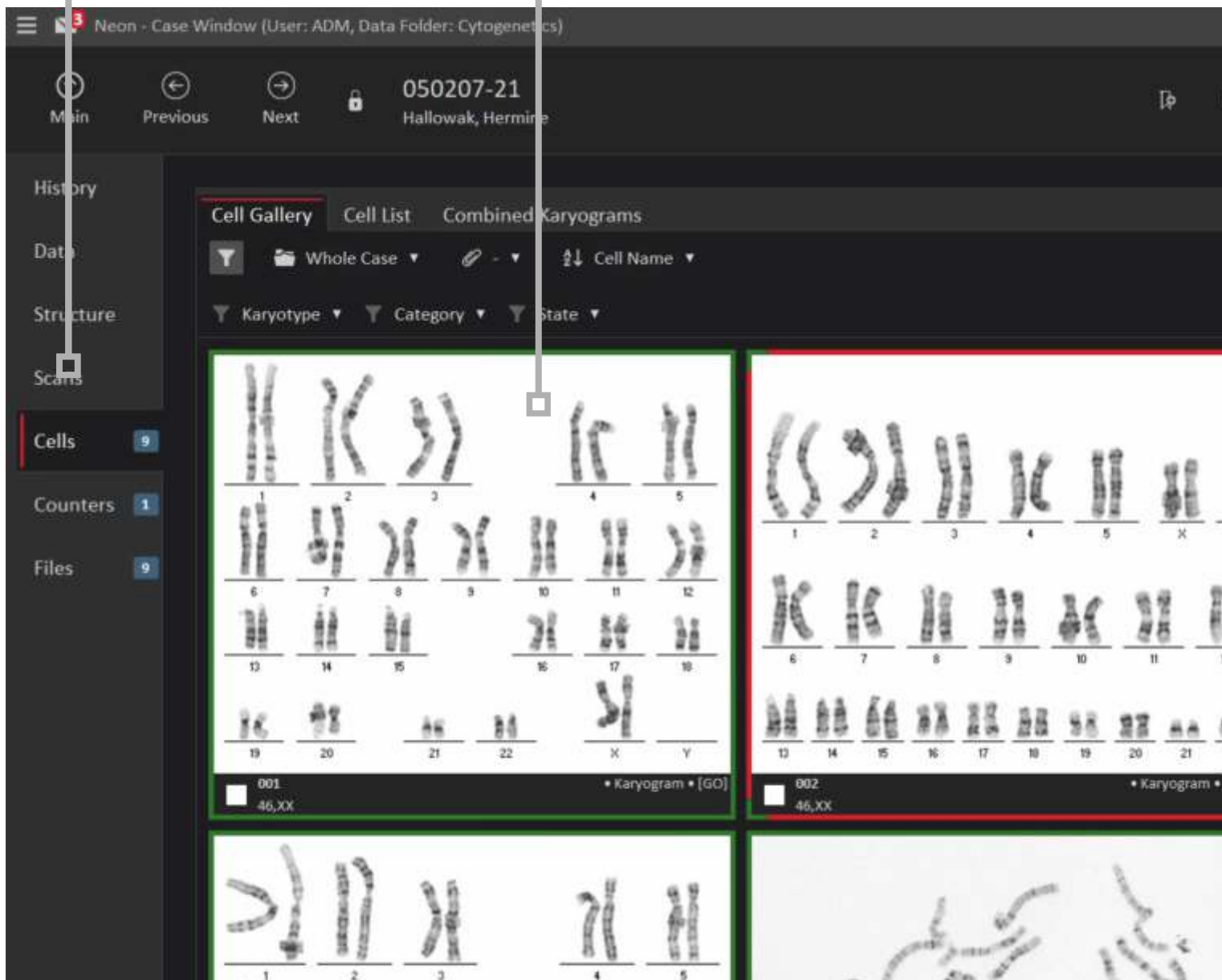
CASES

CASE VIEW TABS

All relevant information about a case can be accessed using the single case VIEW tabs. The numbers of available scans, digital slide images, and cells are displayed. Additionally, the case history, the case structure, and of course the case metadata can be displayed and edited.

CELL GALLERY

The GALLERY of cells represents the case's image repository. The footer of each image displays additional information including cell statuses which are visualized with a colored square-shaped flag. The gallery of cells can be filtered and sorted by many criteria.



CASE WINDOW

WORKFLOW BAR

The WORKFLOW BAR illustrates the current status of the case. Workflow states can be set by authorized users, or automatically based on preset conditions. Cases can be selected by their workflow statuses. Sub-workflows are available to manage more complex procedures.

MODULES BAR

Depending on the configuration of the current installation, a number of software modules for review may be available. The MODULE BAR is a launch pad for all available instances of karyotyping, imaging, review, and scanning modules.

The screenshot displays the software interface. At the top, a window title bar shows the date and time: 2023-06-07 09:51. Below this is a navigation bar with a 'Report' icon and labels for 'Structure' and 'More'. A central 'Workflow Bar' is visible, showing a progress indicator with stages: 'Created', 'Captured', 'In Analysis', 'Analyzed', and 'Checked'. Below the workflow bar, there are icons for 'View', a search icon, a shield icon, and a refresh icon. A 'Custom' dropdown menu is also present. The main area shows a karyogram with chromosomes arranged in pairs and numbered 1 through 22, plus X and Y. A sidebar on the right contains a 'Modules Bar' with icons for 'Ikaros / Isis', 'Data', 'Delete', 'Move', and 'Copy'. At the bottom left, there is a small panel with '[ADM]', '003', and '46,XX'.



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The described functions refer to the following software versions: **Ikaros 6.3** | **Metafer 4.3**

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