

STUDIES NOTEBOOK FOR BIOLOGY



Studies Notebook is an easy-to-use, secure and scalable electronic laboratory notebook that adapts to the needs and workflows of biologists working in discovery research. It enables experimental design, data capture, analysis and reporting of *in vitro* and *in vivo* studies.

STUDIES NOTEBOOK SUPPORTS MULTIPLE BIOLOGY DOMAINS

Biologists, and the companies they work for, need a formalized way to design experiments and capture the resultant data. Electronic lab notebooks (ELNs) offer significant advantages over paper-based systems in terms of standardized data entry, data retrieval, aggregation and analysis. Studies Notebook, the ELN from Dotmatics, supports both biology and chemistry experimentation with a configurable interface that adapts to work performed by project teams. This ensures that a single solution can be used globally across diverse research teams, enabling data consistency and facilitating collaboration, while minimizing the IT footprint.

Studies Notebook for Biology combines the power of configurable biological protocols for experimental design, data capture and analysis, with the utility of Dotmatics Browser for data retrieval and reporting. This is all backed by the common user management and security features of the Dotmatics Platform.

AN ADAPTABLE NOTEBOOK THAT SUPPORTS YOUR WORKFLOWS

Dotmatics Studies Notebook is designed for the needs of discovery research.

- Forms ensure consistent protocol execution and structured data capture, providing the highest quality data
- Data captured is immediately available within the Dotmatics platform, supporting collaborative research
- Configurable forms adapt to pre-existing workflows and can easily be updated when workflows or instruments change
- "Paper-on-glass" representation provides the maximum flexibility for experimental design and data capture
- Seamless integration with Dotmatics Bioregister and Inventory ensures bidirectional access to biological entities and sample information

- Permits attachment of supporting data files
- Handles screening data; both plate- and non-plate-based assays
- Perform %inh, IC/EC50, KI and user-defined analyses
- Automatically fits curves
- Supports manual results validation and knock-in/out of points
- Curves, fits and underlying parameters are automatically stored in the database and immediately searchable
- Capture raw data and documents and add them to experiment pages
- Out-of-the-box forms to handle assay development, screening and DMPK data
- Capture and efficiently store images
- Directly upload data stored in documents to the database for centralized data management
- Capture all data related to an experiment whether structured or unstructured to support better-informed decision-making
- Easily design new protocols and reuse them
- Create new experiments or pages from scratch or by cloning past experiments

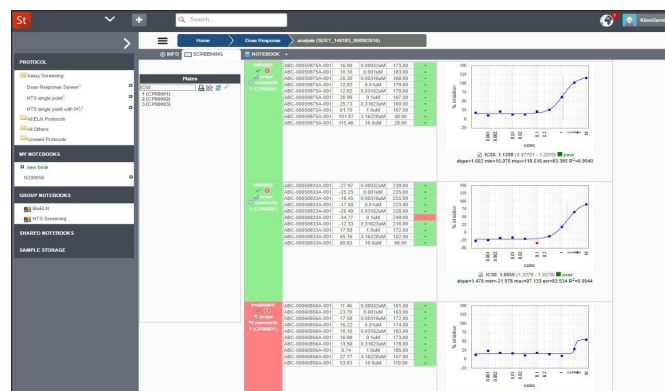


Figure 1: Dotmatics Studies Notebook for Biology

POWERFUL BROWSING, QUERYING AND REPORTING

Dotmatics Studies Notebook is fully integrated with Browser, Dotmatics' powerful query and reporting tool. This enables users to easily perform real-time querying and reporting, and get complete project information in a single place.

- Perform queries within an individual project or across projects and research teams
- Perform queries across a set of diverse databases, not just the Dotmatics Platform. This will provide you with a single view into a multichannel stream of information
- Set up project alerts to run at specific times to notify you of new data added to a project
- Create SAR tables
- Pivot data on the fly
- Design report templates and reuse them

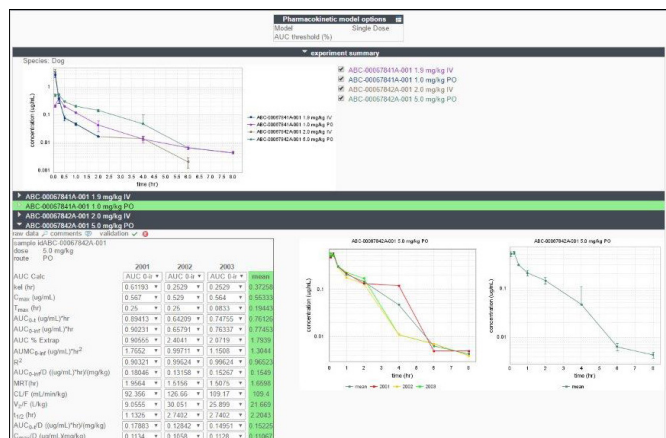


Figure 2: *in-vivo* pharmacokinetic analysis

AN ARCHITECTURE FOR THE FUTURE

Dotmatics Studies Notebook is entirely web-based so it is easy to manage and can be accessed from anywhere.

DOTMATICS STUDIES NOTEBOOK FOR BIOLOGY OFFERS A COMPLIANT AND EFFECTIVE SOLUTION TO CAPTURE THE FLOW OF BIOLOGICAL INFORMATION ACROSS AN ORGANIZATION, PROMOTING COLLABORATION AND IMPROVING PRODUCTIVITY

- Supports Windows, Macintosh and mobile devices
- Uses https protocol for secure communication
- Available on your server or from the cloud

SECURE AND COMPLIANT

- Studies Notebook is used across many regulated preclinical laboratories. It provides organizations with all the tools to be FDA compliant
- Meets 21CFR Part 11 requirements
- Role-level and project-level security
- Digital signature and audit trail

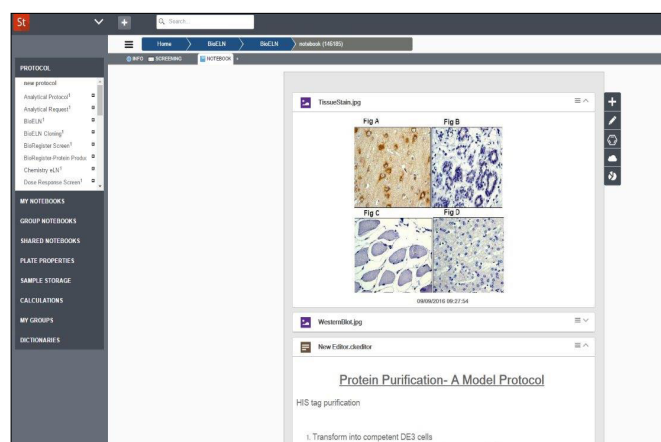


Figure 3: Studies Notebook handles both documents and images

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