Meeting Biologists’ Informatics Needs

Biologists need informatics tools that help them to maintain their focus on research activities while managing a wide variety of data types and complex workflows in an environment that supports full collaboration across their organization.

- Collection, management and sharing of sample and assay data needs to be efficient and flexible
- Complex research and request workflows need to be streamlined to enhance efficiency and productivity
- Barriers to data sharing and scientific communication need to be broken down to support cross therapeutic collaborations and decision making
- Seamless integration across the organization is needed to associate biological assay outcomes with chemistry and downstream development

Ensemble for Biology is an integrated informatics suite of applications that focuses on the complex and collaborative needs of biological research.

Integrated Informatics Solutions for Biologists

Ensemble for Biology gives biologists the tools they need for analysis, drawing, screening and visualization that incorporate the ability to search across experiments, compare multiple assay results and generate reports using drag and drop techniques, pre-made biology templates or templates created by the researcher.

**E-Notebook for Biology**—The bioassay module is a powerful extension to E-Notebook that supports complex workflows and data management from biological research activities. Specific functionality provided by the bioassay module includes:

- Tools to manage study design and execution
- A flexible data model enabling interpretable output from assays
- Simple interface to load, enter and update data
- Automated, repeatable calculations and data analysis
- Configurable data loading options from internal and external data sources
- Encapsulation of assay data directly into E-Notebook
- Search capabilities, including cross-experiment searching
- Drag and drop report designer
BioDraw—Includes customizable drawing tools that facilitate drawing, sharing and presenting biological pathways with built-in common pathway elements (e.g., membranes, DNA, enzymes, receptors, reaction arrows, etc.), including the capability to import other elements. The output from BioDraw can be exported into presentations, grant proposals and publications.

ChemBioViz with Spotfire® Integration—Provides researchers with a unique solution that combines the data organization, linking, query and result management features of ChemBioViz with the advanced data visualization and analysis features of Spotfire—in one common interface.

LIMS—Provides advanced scheduling and task management capabilities, streamlined data collection and reporting, integration and automation of processes and efficient workflow management within a secure environment that fully supports regulatory compliance requirements.

Instrument Integration—Industry leading technology automates the transfer of data and information from virtually any instrument, eliminating the possibility of errors from manual transcription of data, reducing the time spent reviewing data and eliminating delays in data reporting.

Enabling Better Biology

Ensemble for Biology facilitates data management from complex assays and workflows, and promotes cross functional collaboration across therapeutic and geographic boundaries.

- Cross functional connections via a single platform enhance efficiency and consistency
- Knowledge management and integration connect assays with bioprocesses
- Networking various technological platforms to seamless process management
- Researchers and developers can streamline processes across functional workflows

Ensemble for Biology gives researchers and their organizations an end-to-end solution that reduces the time to discovery through enhanced data management capabilities, streamlined workflows, effective collaboration and subsequent connection with downstream development, while fully supporting regulatory compliance and protecting intellectual property.

Ensemble for Biology is an integral part of PerkinElmer’s Ensemble Platform of Informatics Solutions. For more information on Ensemble for Biology or any of its complementary modules, please visit www.perkinelmer.com/informatics.