The ChemBioOffice® software suite equips chemists and biologists with a unique and powerful collection of scientifically intelligent personal productivity tools that help them to efficiently keep track of their work, visualize and gain a deeper understanding of their results and make decisions with greater confidence.

Research is accelerated as personal versions of the PerkinElmer E-Notebook electronic laboratory notebook and the PerkinElmer Inventory application are integrated with the industry leading ChemBioDraw® application plus a host of tools for 3D modeling, scientifically intelligent searching, data visualization, analysis and management.

**Paper Replacement Accelerates the Discovery Process**

A personal version of E-Notebook, one of the most widely used electronic laboratory notebooks, boosts productivity by replacing paper journals and notebooks with a powerful, searchable and secure solution for recording experiments and their outcomes.

- Get fast access to information, when it is needed, using scientifically intelligent tools to search databases, documents and applications — on your desktop, on your network and across the internet
- Easily add input from the ChemBioDraw suite, Microsoft® Office® applications and spectral software to E-Notebook pages
- Customize your workspace with configurable nicknames, hot keys and custom templates that let you work the way you want to
- Save time entering data and comments by using auto-text shortcuts for commonly used phraseology
- Enjoy the flexibility of being able to use E-Notebook offline and then synchronize later with the online version
- Protect intellectual property and meet compliance requirements with electronic signatures and a complete audit trail of experiments including username and timestamp

**An Integrated Inventory Solution Creates More Time for Science**

The integrated Inventory application provides a complete desktop tool for sourcing, purchasing, tracking and organizing chemical and biological entities. Scientists are liberated from tedious, error prone record keeping activities - creating more time for their scientific research.

- Quickly and easily access and update inventory sources, levels, expiry dates, locations, etc. right from your desktop
- Use barcode enabled data entry and search to deliver even faster access and reduce manual errors
- Source and purchase chemicals online using the ChemACX™ chemical database to locate almost 3 million compounds available from over 600 suppliers worldwide
- User submitted requests for internal chemical substances can be approved or rejected by an administrator
- Immediately understand potential hazards, special handling procedures and storage requirements with direct access to MSDS
- Works with Microsoft® Excel® spreadsheets to simplify initial setup by importing inventory data stored in spreadsheets directly into the Inventory application database
Create Publication-Ready Drawings Effortlessly

• Quickly and accurately draw and edit peptide and nucleotide sequences using single and three letter codes, including beta and D-amino acids. Sequences can be expanded and contracted and sulfide and lactam bridges can be easily added
• Paste peptide and nucleotide sequences from the web or text files and have the sequence laid out with control over block size and length
• Create compelling illustrations of cells and pathways using an extensive set of biology drawing elements
• Draw Gel Electrophoresis plates and TLC plates quickly and precisely
• Produce structures from systematic and common chemical names, and generate systematic IUPAC names from structures
• Use advanced clean-up tools for molecules, reactions and biopolymers to create attractive and accurate diagrams
• Ensure that papers are publication-ready with pre-stored publication format guidelines for the major chemical and scientific journals

Analyze and Visualize for Deeper Insight into Results

• Explore the 3D shape and properties of compounds with the ChemBio3D® molecular modeling and protein visualization tool
• Build small molecules and simultaneously view the 3D structure
• Perform RGroup Analysis, read graphic files from the database, Python programming and improved tautomeric searching
• Predict 1H (proton) and 13C NMR spectra. Spectra and peaks are linked to the structure for clear interpretation
• Predict a range of properties including BP, MP and more
• Visualize and correlate structures and numeric data with the ChemBioFinder scientific personal database system
• Calculate and display structure activity relationships, clustering relationships, and statistical data, including histograms, scatter, logarithmic plots, and dendrograms
• Create compound profiles and visually compare and rank structures based on values of selected properties and the cost profile associated with each property

Calculate Efficiently and Accurately – Every Time

• Automatically calculate, track and update stoichiometry data for chemical reactions
• Calculate values for physical properties, view and edit structures in a variety of modes, automatically create databases and forms for importing, exporting and printing data
• Explore important bioavailability properties such as acid dissociation, distribution and aqueous solubility for putative compounds using specialized calculators for pKa, LogD and LogS
• Add chemical intelligence to Microsoft® Excel® spreadsheets. Build and manipulate chemical structures, compute chemical properties and use structure and substructure searches to locate and group compounds
• Use ClogP to calculate the n-octanol/water partition coefficients for estimating the distribution of drugs within the body

Communicate and Collaborate with your Colleagues - and the World

• Use cloud storage to save, share and import structures, reactions drawings and 3D models with scientists around the world
• Quickly and accurately search for chemical structures in Microsoft® Office® applications, the ChemBioDraw suite, ISIS files and more
• Works with the Microsoft® ActiveX® plugin for querying online chemical databases and viewing and publishing online structures
• Search with structural, numeric, and text data via user-customizable forms, including structural, sub-structural, and similarity queries, as well as linking to related data in sub-forms
• Search PerkinElmer Informatics databases for chemical structures in real time as you draw
• Export and import structure files in all the common interchange formats, including molfile, SDfile, SMILES, InChI and more

Figure 2: Color-coded parsing of a reaction using Reaction Interpreter

For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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