BIOVIA

3DEXPERIENCE®

BIOVIA PIPETTE SKETCHER
SKETCH ANY ENTITY ON ANY DEVICE. IN THE CLOUD!

Datasheet

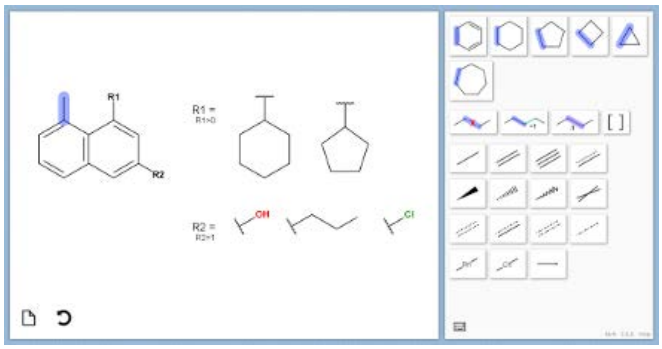
DASSAULT SYSTEMES

Challenges:
Scientists today require a simplified way to sketch in the cloud without having to install and manage add-ons to support chemistry and sequences.

Features:
BIOVIA Pipette Sketcher enables scientists to draw and edit complex molecules, chemical reactions and biological sequences in web-based environments. The tool facilitates the collaborative searching, viewing, communicating and archiving of scientific information on mobile touch devices and in the Cloud.

A NEW AND BETTER WAY TO DRAW STRUCTURES

Pipette Sketcher offers scientists unique capabilities for sketching small molecules, chemical reactions and complex biological entities such as peptides, oligonucleotides and oligosaccharides using the Pistoia Alliance HELM editor. Scientists have the option to view their sequences, either in the HELM layout or SCSR—or both.



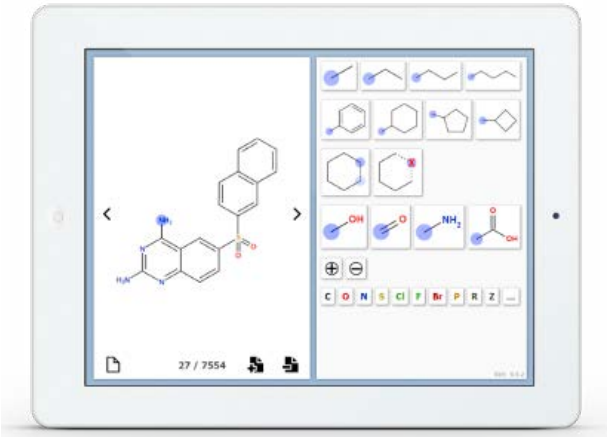
EASY TO USE WITH TOUCH DEVICES

Pipette Sketcher is easy to use on touch devices including:

- iOS and Android
- Windows 8/10 tablets and touchscreen laptops
- Interactive whiteboards

...and it is still wonderful with a mouse and keyboard!

Most importantly, scientists can use the same sketcher across all their devices.

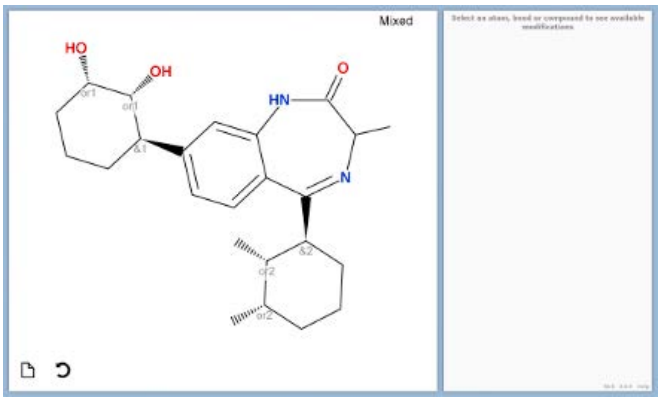


BROAD CHEMISTRY SUPPORT

Pipette Sketcher provides the same sketching capabilities as BIOVIA Draw including:

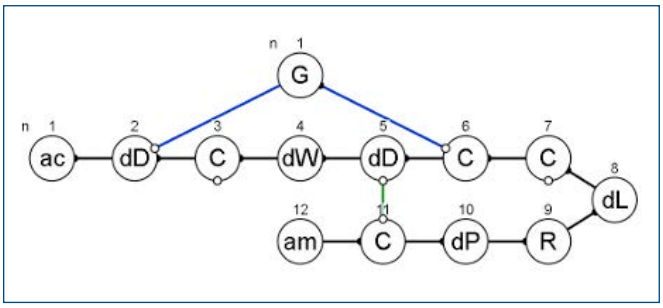
- Relative stereochemistry
- Repeat units
- Haptic bonds
- Query features
- Reactions

BIOVIA adds additional features regularly based on customer feedback.



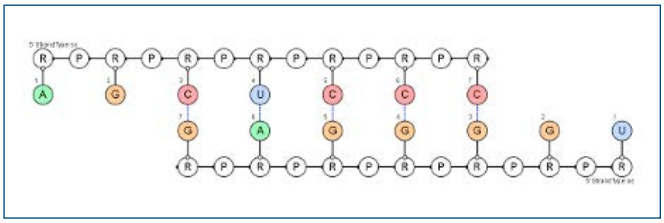
THE BEST WAY TO DRAW BIOLOGICAL OLIGOMERS

Designed for usability with the Cloud and mobile touch devices, Pipette Sketcher's context-sensitive user interface presents only those changes that are relevant to the current selection to reduce clutter. Automatic layout and zooming provide the optimum layout, as scientists make changes. The Java-based Pipette Sketcher minimizes frustration with an interface designed to avoid misclicks and other common mistakes.



HELM SUPPORT

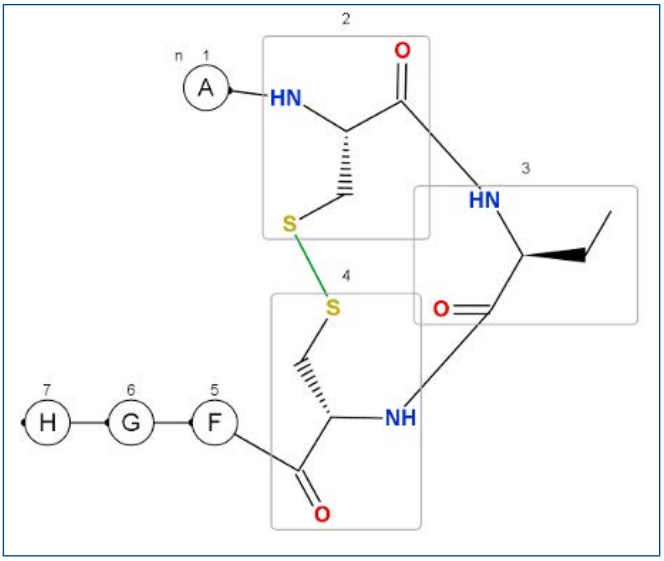
Building on the usability of Pipette Sketcher for chemistry, the tool lets scientists draw and edit complex biological sequences. It supports multiple chains, connections, complimentary strands and annotations as well as the HELM specification from Pistoia Alliance. Scientists can quickly find the right HELM monomers from their corporate monomer database or the BIOVIA Centralized Library of monomers and templates for sequences (available with the BIOVIA Pipeline Pilot Chemistry Collection).



EDITABLE MONOMER CHEMISTRY

With the tried-and-tested Pipette Sketcher, editing of monomer chemistry is just a click away. Scientists can perform chemistry editing within the same user interface. In accordance with the HELM specification, the sketcher serializes monomer chemistry to HELM representation as SMILES. In this way, the system integrates HELM monomer registration and approval into biological registration workflows.

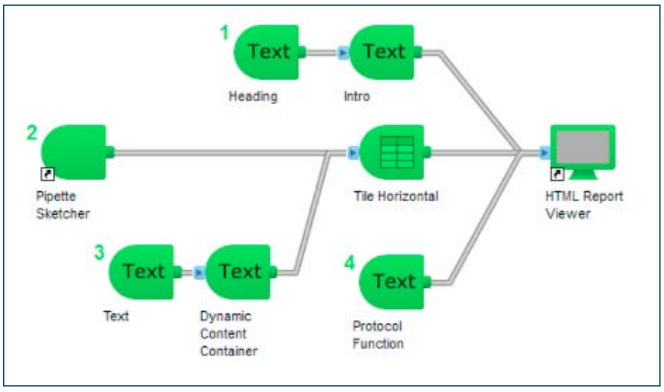
Scientists can accelerate research by performing searches by name or against a standard library of abbreviations, attachments and the latest updated library of monomers to find the structures they need to sketch.



EASY TO DEPLOY

As Pipette Sketcher is fully web-based, no browser plugins or add-ins are required. It is easy to integrate with existing web or desktop applications.

Pipette Sketcher is available from BIOVIA Dassault Systèmes via the BIOVIA Pipeline Pilot Chemistry Collection and the Pipette Sketcher API. The sketcher integrates with BIOVIA Pipeline Pilot and applications built on Pipeline Pilot (e.g., BIOVIA Insight and BIOVIA Chemical and Biological Registration). You can launch Pipette Sketcher from BIOVIA Draw.



WHY IS PIPETTE SKETCHER BETTER?

Designed for usability for Cloud and mobile touch devices, Pipette Sketcher's context-sensitive user interface presents only those changes that are relevant to the current selection. Automatic layout and zooming provide the optimum layout as scientists make changes. The interface minimizes frustration by minimizing misclicks and helping scientists to avoid other common mistakes.

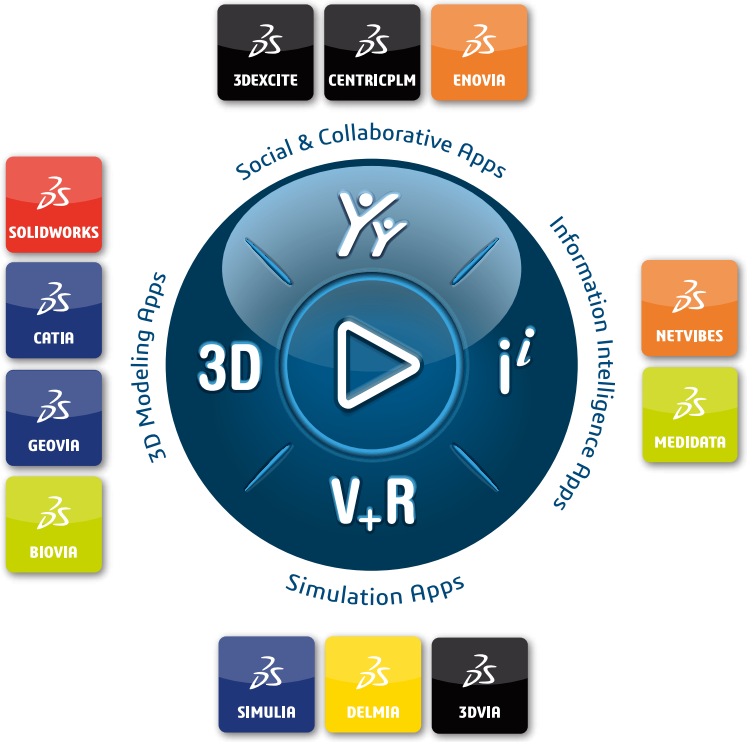
Scientists can perform searches by name or against a standard library of abbreviations, attachments and the latest updated library of monomers to find the structures they need to sketch. For biological entities, they can also add their own custom monomers and synchronize across BIOVIA applications, e.g., BIOVIA Pipeline Pilot Chemistry, BIOVIA Draw and BIOVIA Direct. Scientists can be confident that they are using the latest and most up-to-date, standardized library of monomers.

FOR DEVELOPERS—PIPETTE SKETCHER API

The documented Pipette Sketcher API enables developers to create custom applications that use the sketcher. Refer to the Pipette Sketcher Integration Guide.

HELP

Refer to "Pipette Sketcher - Introduction to Sketching Biologics."



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Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

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