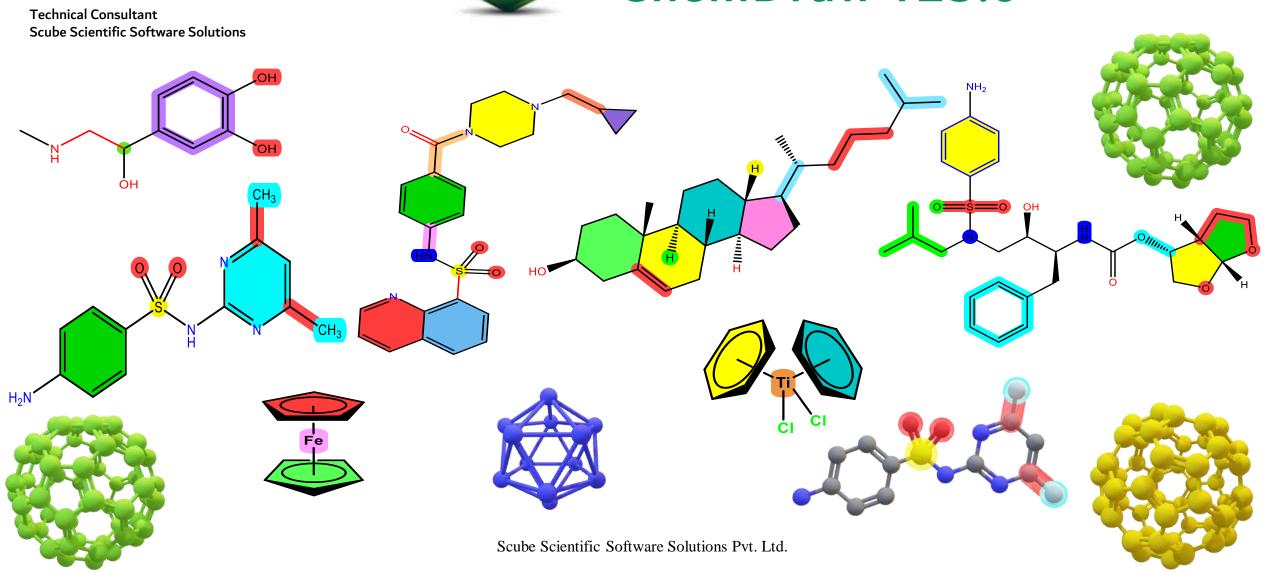


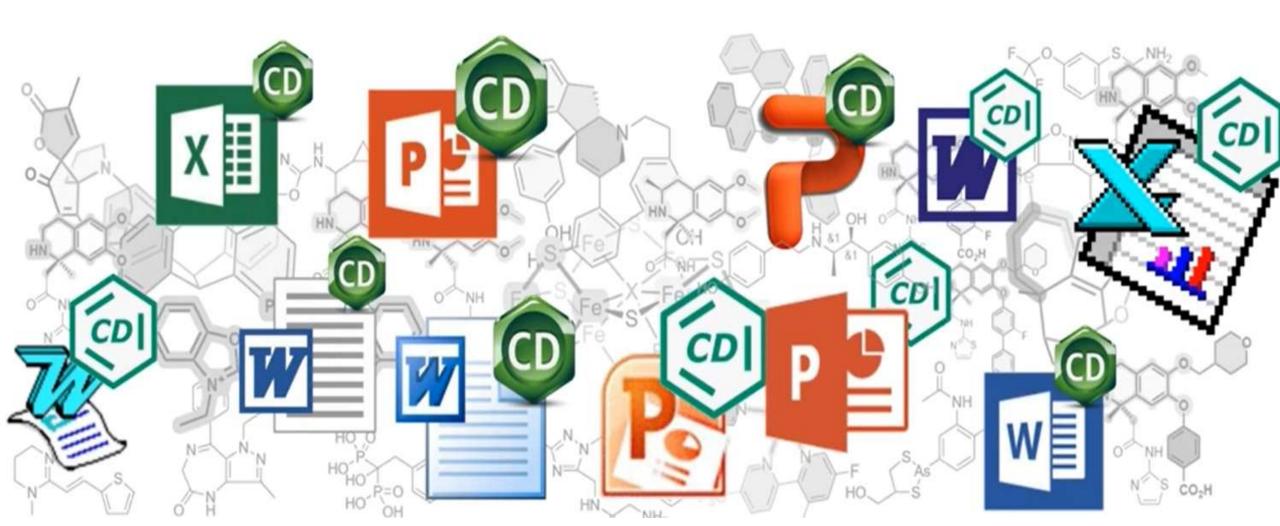
#### **Bobby Solanki**

# ChemDraw v23.0





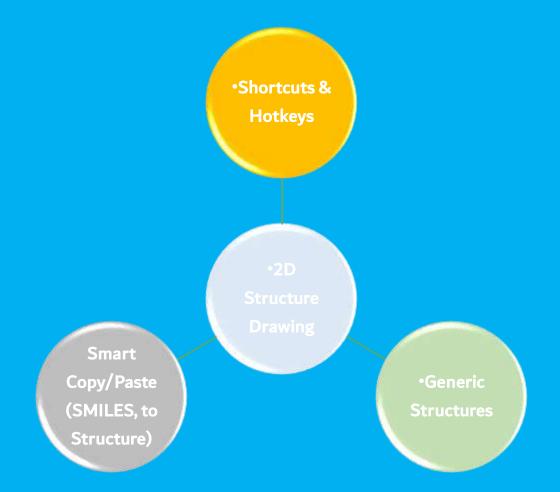
# **ChemDraw**



Scube Scientific Software Solutions Pvt. Ltd.



ChemDraw Prime





**ChemDraw Professional** 







# Signals ChemDraw 23.0

# ChemDraw Integrated with the Signals Platform

#### **Features**



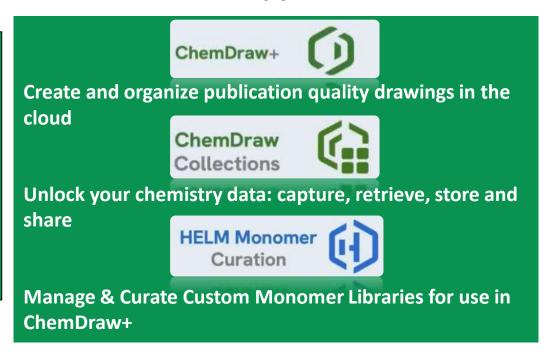
**Access to ChemDraw Products via Signals Platform** 

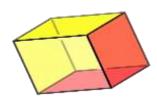
Activation via Authentication (no activation codes)

**Signals Integration in Desktop** 

**Automatic Updates** 

#### **Cloud Applications**

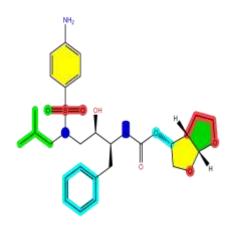




Molecular Weight: 104.15

Formula: C8H8 Exact Mass: 104.06 Chemical Name: cubane

CLogP: 2.30



Molecular Weight: 547.67 Formula: C27H37N3O7S Exact Mass: 547.24

Chemical Name: (3R,3aS,6aR)-

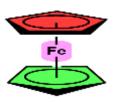
hexahydrofuro[2,3-b]furan-3-yl ((2S,3R)-

4-((4-amino-N-

 $is obuty I pheny I) sulfon a mido) \hbox{-} 3-hydroxy-$ 

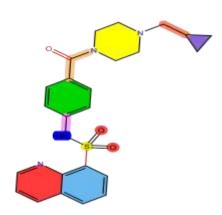
1-phenylbutan-2-yl)carbamate

CLogP: 2.89



Molecular Weight: 186.04

Formula: C10H10Fe Exact Mass: 186.01 Chemical Name: CLogP: 1.78

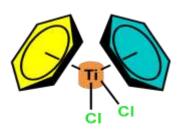


Molecular Weight: 450.56 Formula: C24H26N4O3S Exact Mass: 450.17

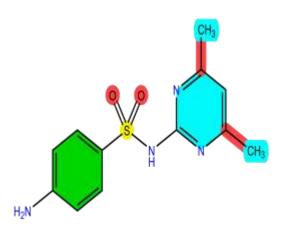
Chemical Name: N-(4-(4-

(cyclopropylmethyl)piperazine-1-carbonyl)phenyl)quinoline-8-

sulfonamide CLogP: 3.44



Molecular Weight: 275.00 Formula: C12H12Cl2Ti Exact Mass: 273.98 Chemical Name: CLogP: 2.14

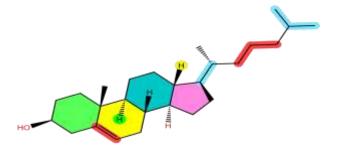


Molecular Weight: 278.33 Formula: C12H14N4O2S Exact Mass: 278.08

Chemical Name: 4-amino-N-(4,6-

dimethylpyrimidin-2yl)benzenesulfonamide

CLogP: 1.10

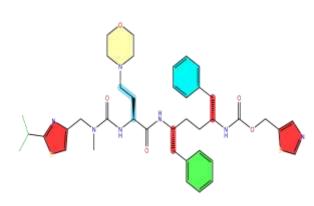


Molecular Weight: 372.64 Formula: C26H44O

Exact Mass: 372.34

Chemical Name: cholesterol

CLogP: 9.00



Molecular Weight: 776.03 Formula: C40H53N7O5S2

Exact Mass: 775.35

Chemical Name: thiazol-5-ylmethyl

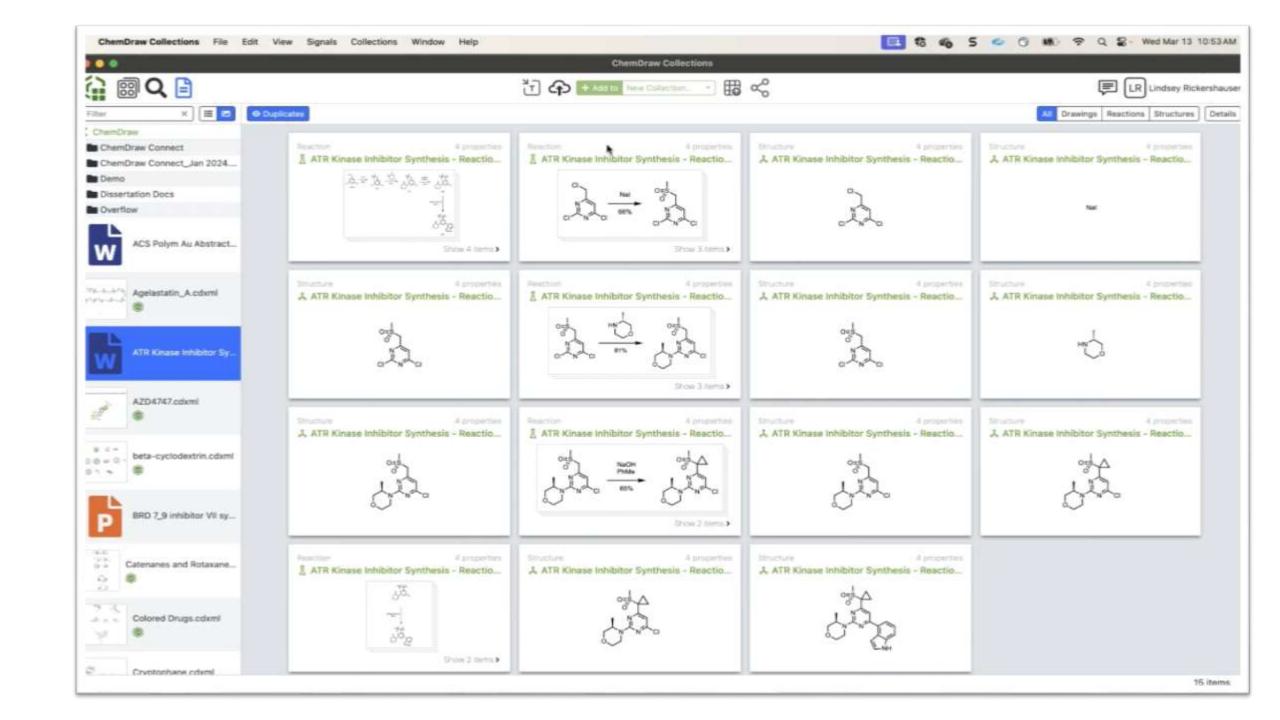
((2R,5R)-5-((S)-2-(3-((2-

isopropylthiazol-4-yl)methyl)-3-

methylureido)-4-

morpholinobutanamido)-1,6-diphenylhexan-2-yl)carbamate

CLogP: 3.98



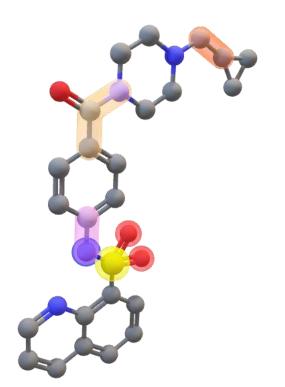


Signals ChemDraw



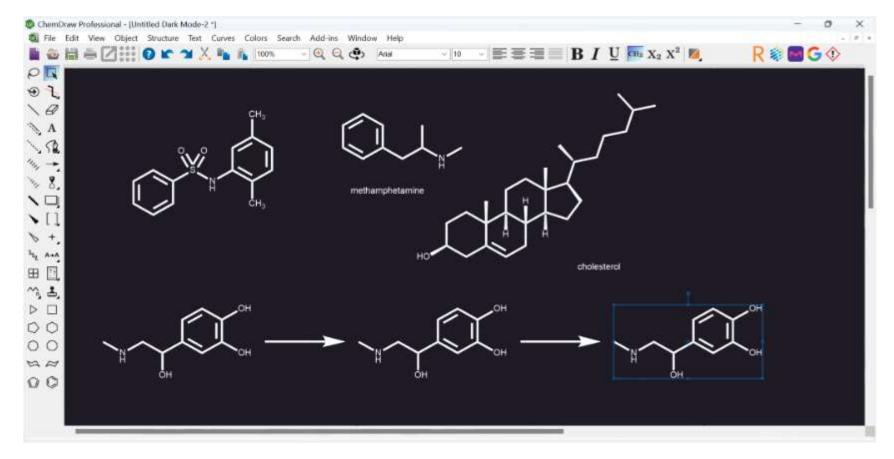


# ChemDraw Integrated with the Signals Platform





# Signals ChemDraw



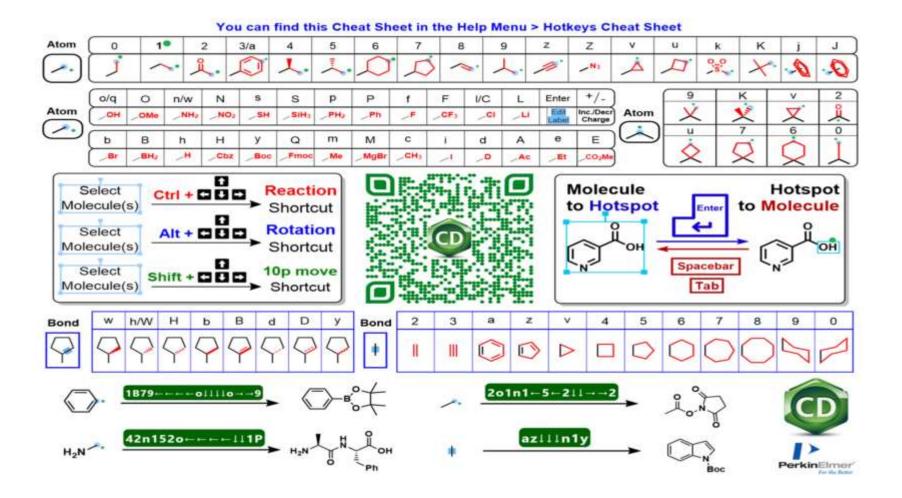
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# **Shortcuts and Hotkeys**

Help →Shortcuts and Hotkeys



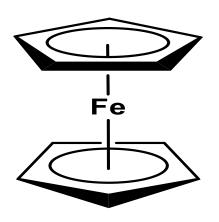


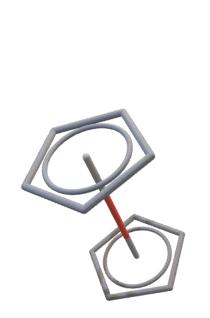
# **Shortcuts and Hotkeys**

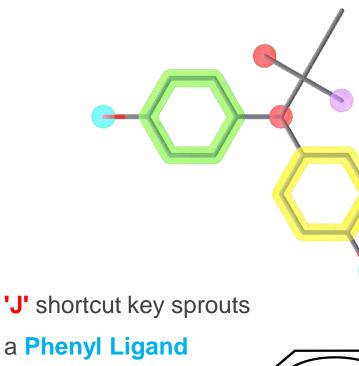


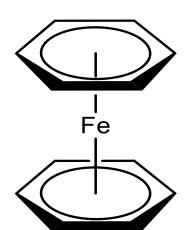
'0' on secondary or
tertiary carbon atom

'j' shortcut key sproutsa cyclopentadienyl ring



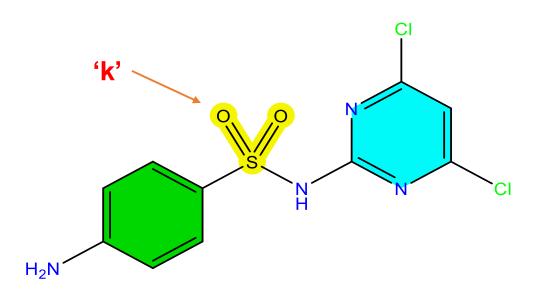


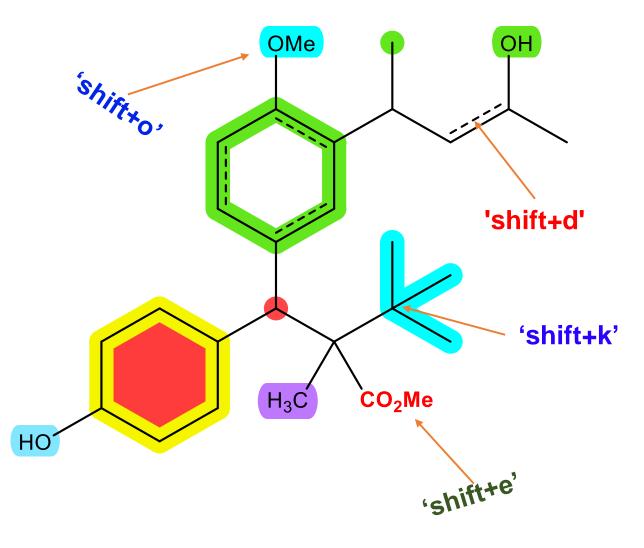






- 'shift+d' key places a dashed double bond.
- 'k' key sprouts a sulfonyl group.
- 'shift+k' key sprouts a t-butyl group.
- 'shift+o' atom hotkey for OMe group.





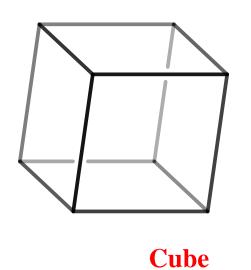


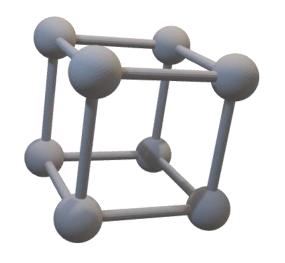
#### **Copy as PNG**

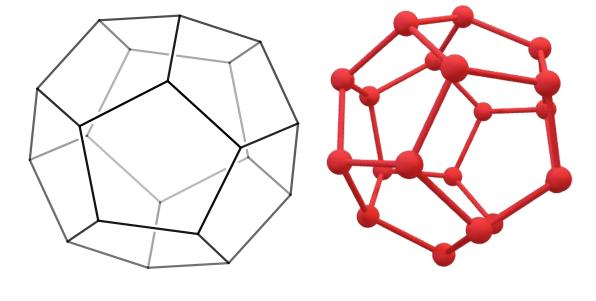
> ChemDraw now lets you copy a structure in .png format and paste it directly into Outlook or Gmail.

#### 'ctrl+J'

> Joining the two or more atoms or molecules together.





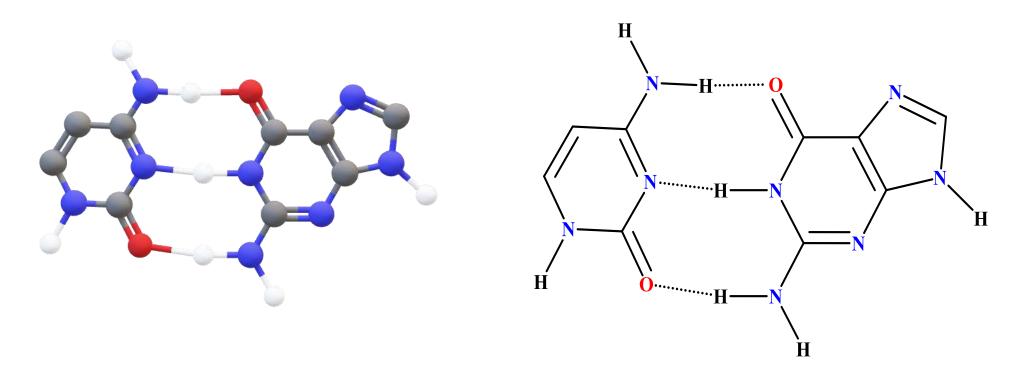


**Dodecahedron** 



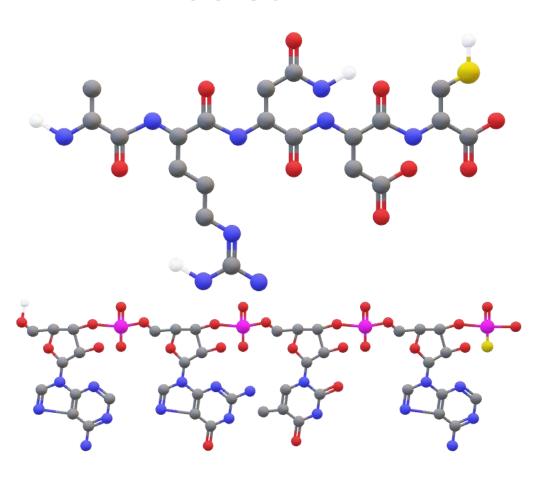
#### **Hydrogen bonds**

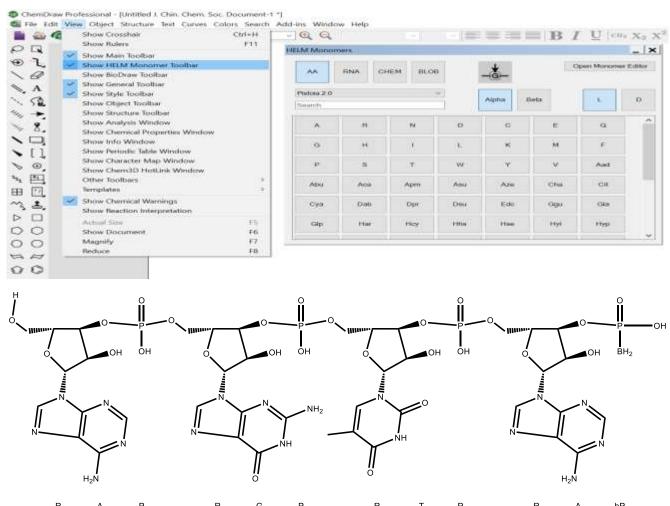
Formerly, dotted lines were used to represent hydrogen bonds, but now there is a specific bond tool for placement of such bonds. By explicitly recognizing a hydrogen bond, ChemDraw can handle them robustly and correctly. For example, hydrogen bonds are now correctly written to MOL files.





# HELM Monomer Toolbar





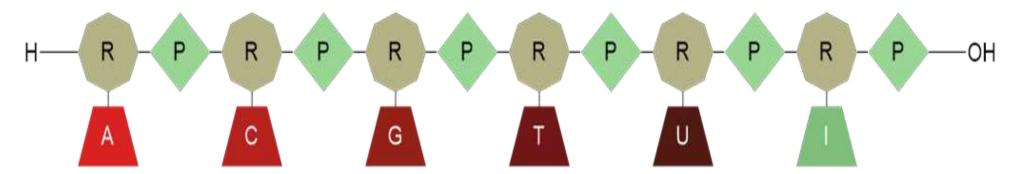


#### **Sequence Graphic Monomers' stylesheet**

• In case of the presence of **OR monomers**, a count indicating the number of members in the OR relationship is displayed as shown in the following image.



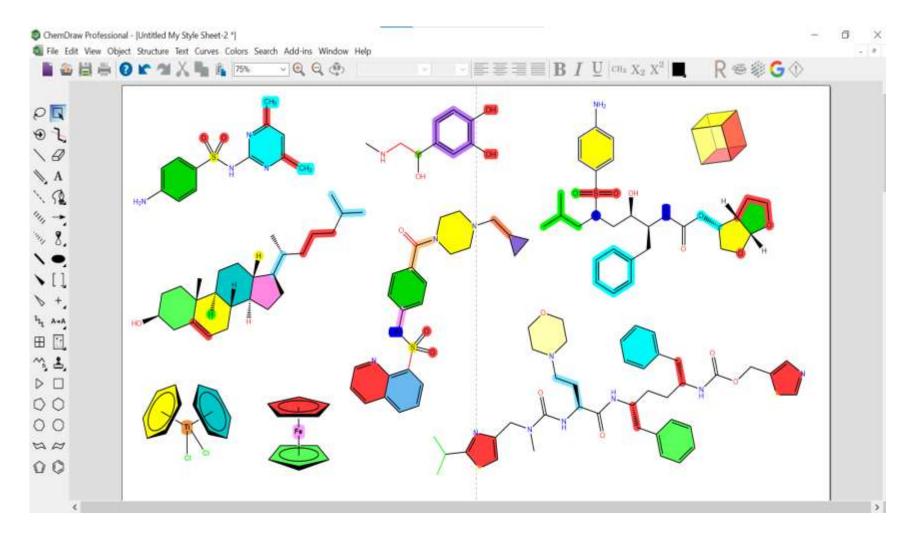
• In the case of DNA/RNA sequences





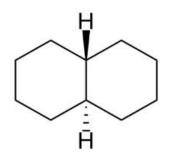
## **Highlight Colours**

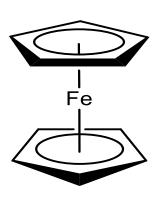
 Produce publicationworthy drawings
 with selected atoms,
 bonds, and ring
 colouring.

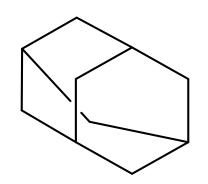


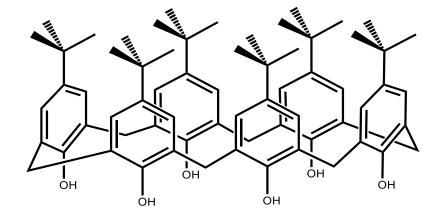


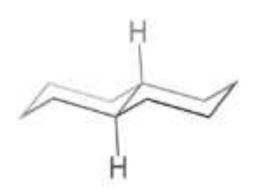
# 3D Clean-up

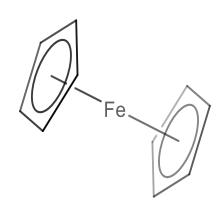


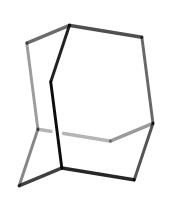


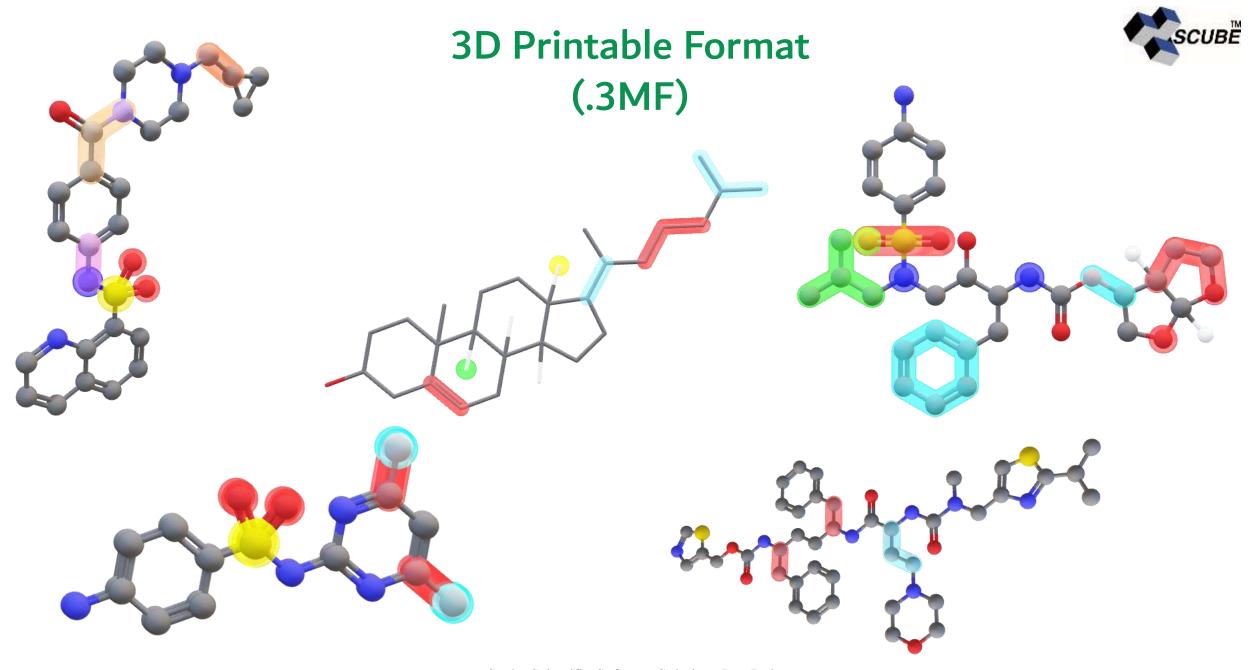












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### Signals Notebook

- Cloud-based collaborative platform,
  - Available anytime, anywhere and on multiple devices.

Manage,
Record, and
Share your
Experiments
with Cloud
Based Revvity
Signals
Notebook

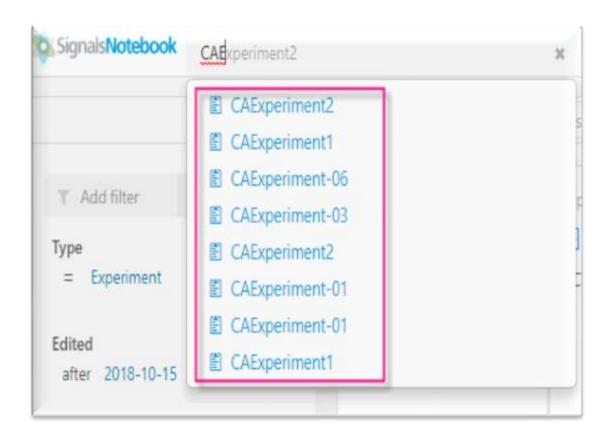
Connect and share data with colleagues and collaborators.



#### **Searching Option**

#### Two types of searches are available:-

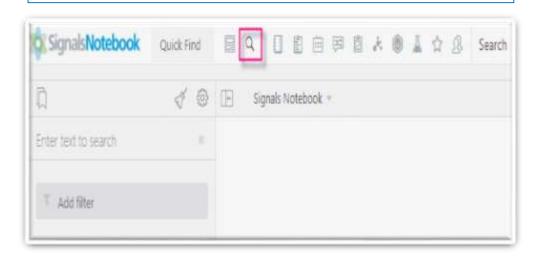
- **Quick Find:-** Contains a text field where you enter the text that you are looking for.
- Advanced Search:- Provides you multiple query fields that you can combine to create and run a query. Advanced search allows you to perform a text search as well.





#### **Advanced Search**

- Using the Advanced Search page you can run chemical, text or combined chemical and text searches.
- You can access the advanced search page by clicking on the Search icon in Signals Notebook toolbar.

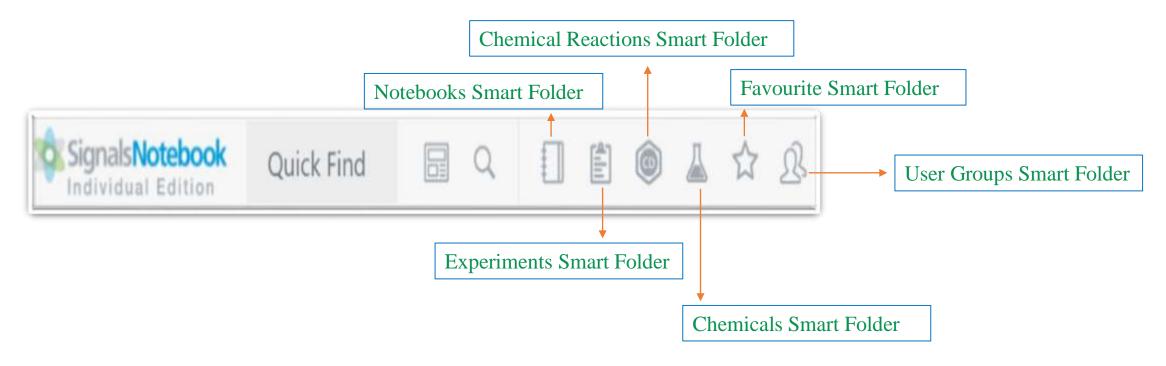


Field Filter	Description
Chemical	Allows you to draw and search for chemical structure.
Text	Allows you to add text field type such as product name, reactant name, MF, resource name, project name, supplier name, etc
Key	Allows you to add resource type and state fields.
Numeric	Allows you to add numeric fields such as actual mass, purity, sample mass, pressure, etc
Date	Allows you to add date fields such as created date, modified date, etc
Boolean	Allows you to add a boolean field type such as Sequence Confirmed, etc
User	Allows you to add user types fields such as creator, reviewer, etc



#### **Smart Folders**

> Smart folders are available in the Signals Notebook header and allow you to navigate to your notebooks, experiments, requests, tasks, materials, chemical reactions, chemicals, favourites items and user groups with a single click.

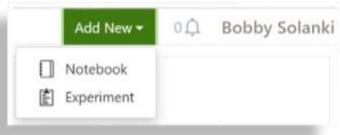


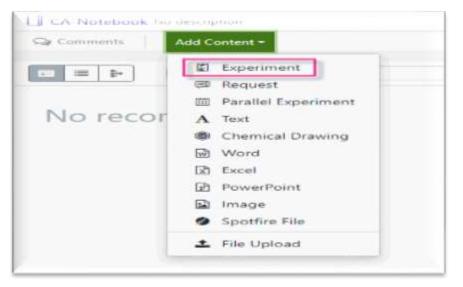
Scube Scientific Software Solutions Pvt. Ltd.

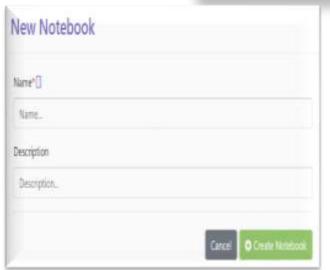


## **Creating Notebook/Experiment**

➤ You can create an experiment under a notebook or an independent experiment not as a part of any notebook.





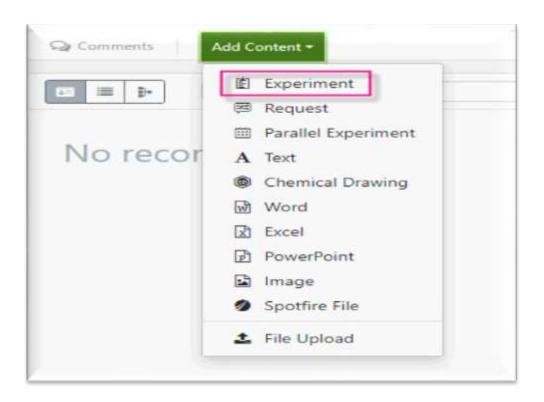






## Adding Information Items to an Experiment

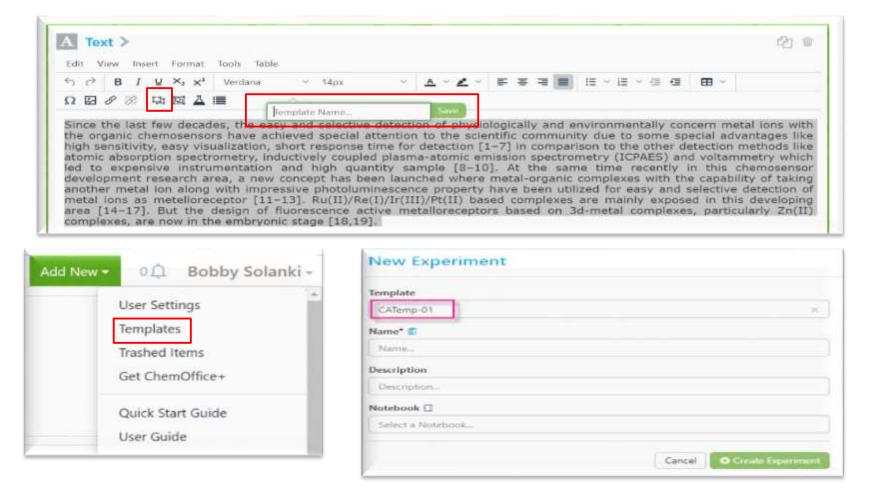
- Once you create an independent experiment or within a notebook, you are ready to start adding content by adding files to your experiment.
- You can also add files to your experiment using the drag and drop method.





#### **Create Templates**

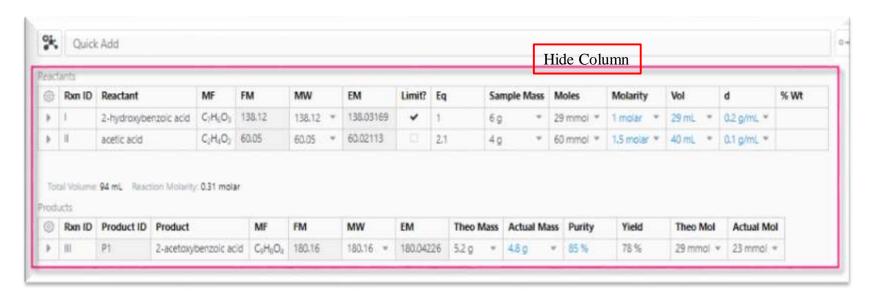
A text template is a set of instructions which are common to different text information items. If you create a text template to contain the instruction set, you do not have to re-type them for each text information item to which they apply. You can create text templates for the Text information item.

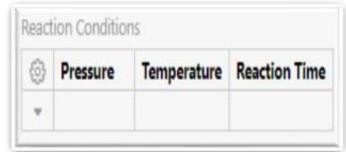




## **Working with Stereometry Grid**

- The Stoichiometry grid analyzes the reaction drawing automatically. It consists of reactant's details and product's details. It automatically calculates and stores sample mass, moles, density, volume, and many other variables of the reactions.
- The Stoichiometry grid shows "The reaction has no Reactants" and the "The reaction has no Products" messages when there are no structures in the drawing area.

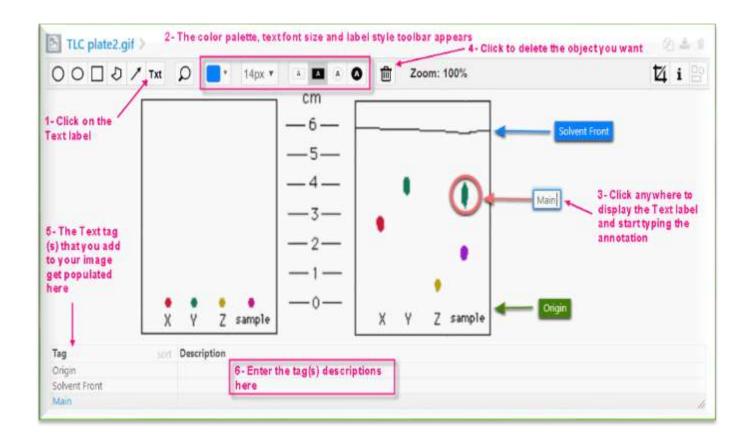






#### **Image Annotation**

You can add a tag to an image as an annotation. When you reference the tag again in the future, it can help you remember image details and also collaborate on those details with colleagues. You can also use tags to search for images.





Safety

Catalo

383-059

3B3-059

AV116

6759

6759

6,7-Dihydroxycoumarin 6-glucoside

**Properties** 

250 a \$475.33

500 g \$713

\$155

\$44.3

CAS: 66778-17-4

Sources

Type to filter...

Supplier

3B Scientific

Corporation

3B Scientific

Corporation

ABCR GmbH &

Co. KG

AK Scientific

AK Scientific

#### **Chem ACX Integration**

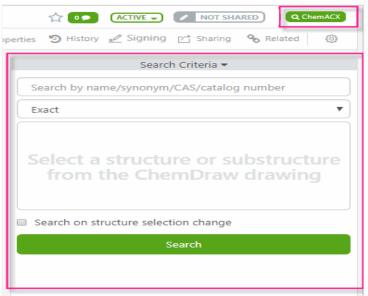
ChemACX (Available Chemicals Exchange) is your guide to commercially available chemicals worldwide. Whether you are planning a bench synthesis, scale-up, or a commercial process, you can search these databases to determine the availability and sources for the chemicals you need.

You can access ChemACX and search for chemicals from the

Signals Notebook interface.

#### You can search ChemACX by:

- Chemical structure
- Chemical substructure
- Compound name
- Compound synonym
- > CAS Register number
- Catalog number

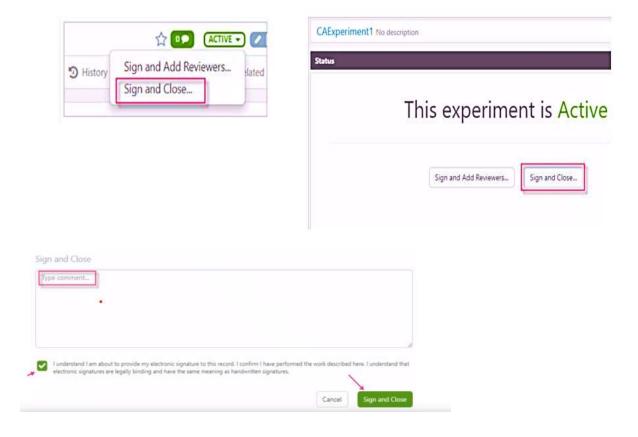


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### Signing and Closing an Experiment

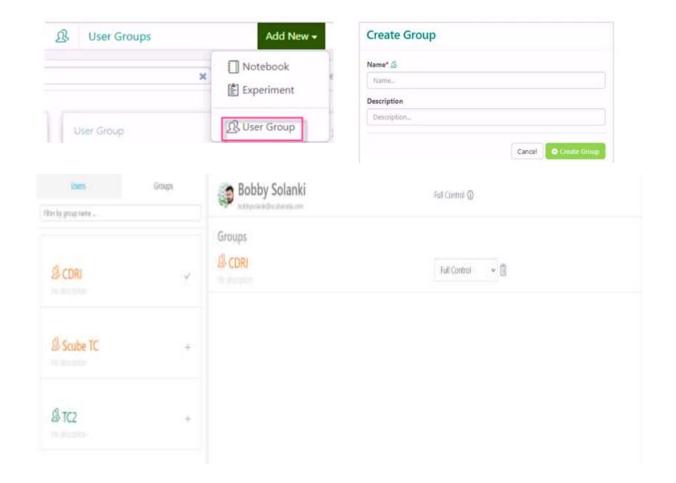
- When you have completed your experiment, you can electronically sign it without a reviewer.
- Once you complete and electronically sign your experiment, you can select a Signals Notebook user to electronically accept or reject your experiment as a reviewer.





#### **Creating a Group**

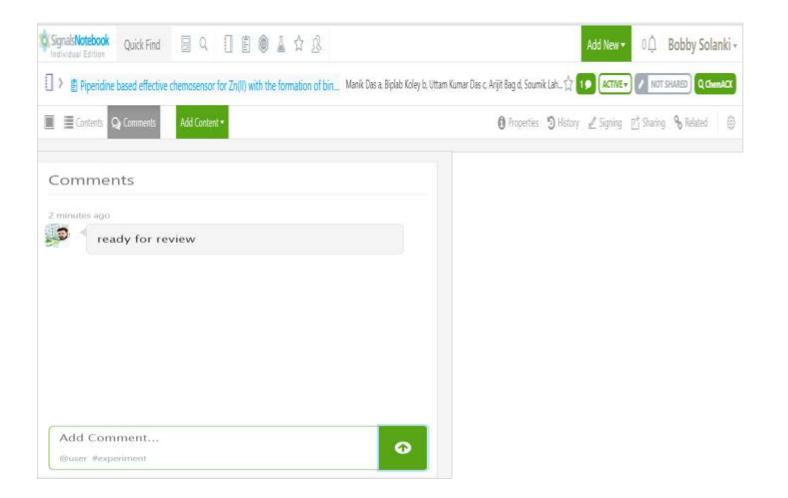
- ➤ You can create a group for sharing or collaboration.
- A system group is a set of users who have the same interests and privileges.
- For example, as a laboratory supervisor, you might want to create a laboratory technicians group so you can share assignments with them or as a professor or teacher's assistant (TA), you might want to create a Students Group so you can share assignments with them.





#### **Adding Comments**

You can add comments to the resources. The number of comments added by you or by the collaborators to the resources appears in the header.

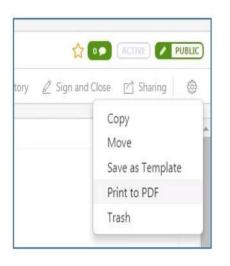


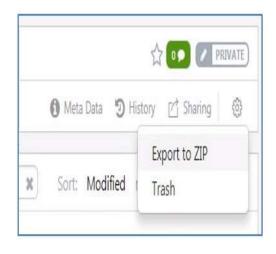
Scube Scientific Software Solutions Pvt. Ltd.

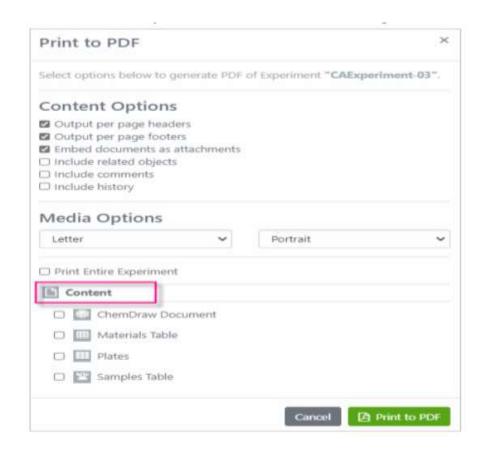


### **Exporting Notebooks/Print to Pdf**

➤ You can print the content of your experiments into a PDF format and save it locally. That way, you can have access to your experiments outside of the Signals Notebook application.



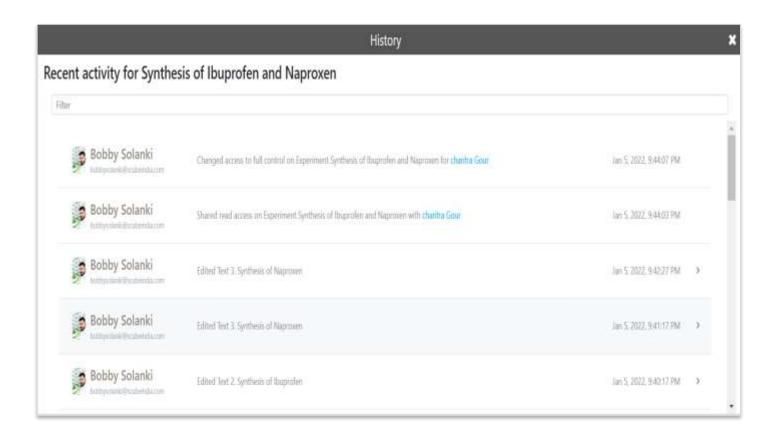






#### History

For all actions such as creation, edit, rename, trash, restore, etc a log (revision) is created in the History tab for the resources.





# Thank You

bobbysolanki@scubeindia.com