



**Universiteit
Leiden**
The Netherlands

Electronic Laboratory Notebook (ELN) Newsletter

*ELN Newsletter - Faculty of Science
Number 7 - July 2021*

Electronic Laboratory Notebook (ELN) and Covid-19

Do you know that....

ELN Training

ELN Support

What's new

Electronic Laboratory Notebook (ELN) and Covid-19

Throughout this difficult period, the importance of finding, accessing and sharing data and information with colleagues became apparent. Since the original setup, ELN has always been available and accessible via a dedicated Citrix system. Anyone with an active account has been able to carry on their activities in the ELN.

Having in place digital Notebooks and Experimental information enhances the management of the data.

Some colleagues used ELN during the lockdown to keep up-to-date the experimental data or to prepare their publications checking the experiments



information on the ELN...

...so... keep calm and go ELN!

Do you know that....

ELN can work with AutoText?

With the Auto Text feature, you can add pre-defined fragments of text. This allows you to create the contents of a text field quickly. You can add text from other fields, such as, reaction properties, or values in the stoichiometry grid of a Reaction section. As you update your reaction drawing and the stoichiometry grid, your changes are reflected in the AutoText field.

The example below shows the Preparation field of the reaction section.

The screenshot shows a software window with two tabs: 'Title' and 'Reaction'. The 'Reaction' tab is active, displaying a list of eight numbered steps for a chemical procedure. A context menu is open over the text, listing various editing and insertion options. The option 'Insert ACETIC ACID' is highlighted with a red rectangular box.

1- Mix ethanol (28.9 ml, 43.4 mmol) and acetic acid (24.98 ml, 24.98 mmol) thoroughly in a 250cm³ round bottomed flask.

2- Add slowly with cooling and shaking concentrated Sulfuric acid (Volume: 10 ml).

3- Ensure that the mixture is homogeneous, then fit the flask with a reflux water-condenser, and distill off about two-thirds of the mixture.

4- Transfer the distillate to a separating funnel and add the aqueous solution. Stopper the funnel, invert it and shake, opening the stopcock to allow the layers to mix.

5- Allow the two layers to separate and carefully run off the lower layer. Repeat until that the sodium carbonate is removed as completely as possible.

6- Prepare a solution of 25g of calcium in 25 cm³ of water in a 100 cm³ separating funnel, and shake vigorously. Allow the mixture to separate and run off the aqueous layer as completely as possible.

7- Run the ethyl ethanoate into a small conical flask, add the calcium chloride, and shake occasionally until the liquid is clear.

8- Then decant the liquid into a clean, dry 100 cm³ round bottomed flask, add the granules, and arrange for distillation including a 0-100°C distilling flask should be placed in a cold water bath, which is always formed in this reaction will distil off at 35-40°C. Collect the fraction that boils between 74°C and 76°C.

Context menu options:

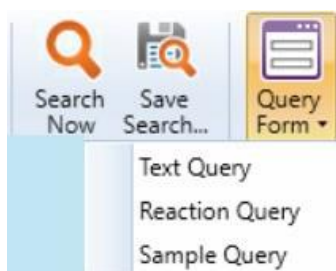
- Increase Indent
- Decrease Indent
- Font
- Paragraph
- Bullets and Numbering
- Bookmark...
- Hyperlink...
- Insert Table
- Insert Image
- Edit
- Insert Reaction Molarity
- Insert Pressure
- Insert Temperature
- Insert ACETIC ACID**
- Insert ETHANOL
- Insert ETHYL ACETATE

ELN allows to create 'life cycles' to your experiment?

Experiments can be configured with states associated with them. These states define their life cycle. For example, an experiment can have an Open or Closed state. An Open state permits editing, and a Closed state is read-only, and does not permit editing. Transitions are actions you perform to move a collection from one state to another, for example, from Open to Locked, or from Locked to Closed. Privileges on who can perform these transitions can also be enabled.

ELN allows different Search types?

You can search for information in ELN that meets the criteria you specify. You can then save your queries and the results. There are three types of search queries you can perform in ELN: Text Query Search, Reaction Query Search and Sample Query Search.



Text Query: in its form you can define your search criteria by including, or excluding, certain words or phrases. You can enter few Metadata to further narrow your search. Wildcard search (*) is supported.

Reaction Query: its form contains several fields that let you specify text criteria, or criteria that corresponds to the contents of the reaction sections: chemical structures, reactants, products, solvents, preparations, and reaction conditions.

Sample Query: its form contains several fields that let you specify text criteria, or criteria that corresponds to the RD (Research&Development) samples that you are looking for.

[Contact us to start or to improve your journey into ELN](#)

ELN Support

The support is given via [email](#) or using MStTeams.

Requests, issues and others can be reported via the [ELN Portal](#):

HOME > RESEARCH & EDUCATION

Research & Education

<p>Data storage (bulk storage) Storage space on the Leiden University network for project or research data</p>	<p>Research network Virtual network for research purposes</p>
<p>Single user compute power on demand... A remote desktop with specific application(s) and additional processor capacity</p>	<p>Leiden University App Technical support for the Leiden University App</p>
<p>Blackboard The heart of our digital learning environment</p>	<p>SURFspot Software and hardware with education pricing</p>
<p>ELN (FWN) Record research progress and data securely with Electronic Laboratory Notebook</p>	<p>File Transfer (SURF filesender) Safely send files up to 500 GB, also encrypted (2 GB)</p>

ELN Training

There is a regular schedule for the ELN training. You can choose for 'PI training' or 'User training'.

To register, please fill in the form available from the ['Research & Education' section](#) in the HelpDesk Portal.

Due to the COVID-19 restrictions the upcoming training will be held online using the MS Teams application.

There is no limit to the number of training's sessions you can receive therefore, if you feel that you need some extra guidance, just register for another one.

What's new?

ELN online training for PIs

From March 2021 a new ELN training for PIs is available. The training is created for those in charge of a research team/group. No prerequisites are needed to follow the training.

The training consists of modules, readings and tutorials. Some modules have a 'self-assessment' quiz to verify if you mastered the content of the module itself.

To access the Online training for PIs you can follow this link: [Online ELN Training for PIs](#).

The link is available only within the University network (local browser or browser via Citrix if you are at home).

ELN upgrade to 20.1

Together with ISSC, we are working to upgrade ELN to the latest release.

The upgrade guarantees the fix of bugs and the compatibility with the latest software. New features will be introduced in this new release too.

ELN recent improvements

The ELN Administrator or any ELN user might come up with ideas or requirements. Upon evaluation and approval, the changes will be applied to the ELN system after a testing phase. The latest changes include:

- [LACDR/DDS/Inventory for the Toxicology group](#): the group needs a repository of Compounds, Cell-lines, Plasmids, Primers and

Antibodies. The same have to be linked to experimental data. These repository are still in TEST. If you would like to have more information send an email to eln-bioscience@science.leidenuniv.nl

- **[LACDR/BT/In vitro Cell assay experiment](#)**: based on the requirements of LACDR/BT W.ljskoot team, a new experiment type has been developed. If you would like to have further information please see the [README](#) or send an email to eln-bioscience@science.leidenuniv.nl

General Information

Contact

Email to eln-bioscience@science.leidenuniv.nl

Website: www.universiteitleiden.nl/eln

Events

See [Training Schedule](#)

Curious?

Several **ELN tutorials** can be found on the [Faculty's YouTube channel](#). The videos cover some of the basic ELN functionalities.

A [Web User Guide](#) is also available. Here you can find general information, examples, basic and advance functionalities etc.

Links

- [Nationaal plan Open Science](#)
- [Amsterdam Call for Action on Open Science](#)
- [NWO](#)
- [Regeling Datamanagement Universiteit Leiden](#)
- [University Library: Datamanagement](#)

- [FAIR principles](#)
- [List of metadata standards](#)
- (University Library) [Example list selection data to archive](#)
- (University Library) [Leiden Research Data Information Sheets](#)
- (University Library) [Template Data Management Plan](#)
- [PerkinElmer ELN](#)

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Contact

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