Universiteit Leiden

Electronic Laboratory Notebook (ELN) Newsletter

ELN Newsletter - Faculty of Science
Number 6 - December 2020

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 usability and interoperability of the data.

One of our LIC's colleague speaks about ELN:

"What I like the most about ELN is that I can organize experiments on topic instead of only chronologically on paper. In that way I have all the relevant experiments together even when there is a lot of time between them. This helps me to get a better overview of my data. "
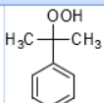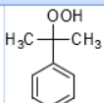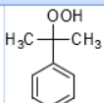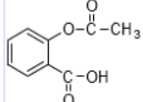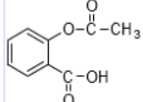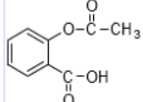
...so....keep calm and go ELN!

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Do you know that....

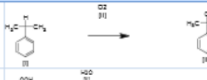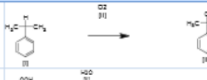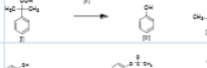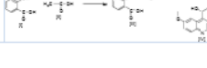## ELN has a Reaction and a Product Table of Contents?

All ELN Notebooks have a Table of Contents (TOC).The **Table of Contents** is a read-only table that displays information related to the experiments created within a selected notebook. The Table of Contents includes: Notebook-ExpID, Owner, Type, Experiment Title, Status, Created Date, and Modified Date.
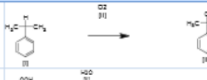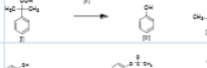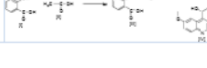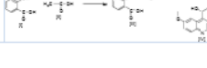

The **Product Table of Contents** is a read-only table that displays the products structures for each experiment within the selected Notebook. This information includes, the experiment's ID, the experiment's status, the creation date, modification and transition's dates, the experiment's title and the product's yield as it relates to each experiment.

The **Reaction Table of Contents** is a read-only table that displays the reactions for each experiment within the selected Notebook, along with the experiment's ID, the experiment's status, the creation date, modification and transition's dates, the experiment's title and the product's yield as it relates to each experiment.

ELN helps you to manage your Projects?

Projects are an important way for scientists to organize information and collaborate. ELN provides a shared space where Projects are defined with metadata and descriptions. Additionally, files, email, and references can be captured at the project level and apply to the entire project, rather than just a single experiment. The Project entity contains (3) folders by default. They are:

- Internal Reports
- Minute of the Meeting
- Publications

extra folders can be added according needs.

Experiments created on behalf of a project can be associated directly with this project.

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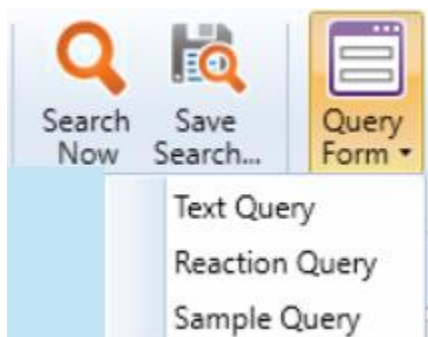
Text Query: in its form you can define your search criteria by including, or excluding, certain words or phrases.You can enter few Metadata to further narrow your search. Wildcard search (*) is supported.

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.

<u>*Contact us*</u> **to start or to improve your journey into ELN**

ELN Support

The support is given via <u>email</u> or using MSTeams.

Requests, issues and others can be reported via the <u>ELN Portal:</u>

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 <u>'Research & Education' section</u> in the HelpDesk Portal.

<u>Due to the COVID-19 emergency the upcoming training will be held online using the MS Teams application.</u>

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 upgrade to 19.1

Together with ISSC, during the Summer ELN has been upgraded to release 19.1.0.
Many requests and bugs coming from the Science Faculty have been adressed in this release. That shows a good cooperation between us and Perkin Elmer.

In conjunction with the upgrade, many users upgraded to MSOffice365 and experienced some issues. The problem has now been fixed and a new ELN client package has been distributed in the Software Center. The fix is applied automatically.

ELN recent improvements

Users might come out 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/Compounds workflow***: this workflow has been developed following one of the LACDR/DDS departments' requirements. The aim of this workflow is to link compounds to the chemistry experiment where the same has been produced and to the BioAssay experiments where the compounds have been used. The final result is a compound report that collects metadata and links to experiments. If you would like to have further information please see the README or send an email to eln-bioscience@science.leidenuniv.nl

- ***LACDR-In Vitro AB experiment*** : based on the requirements of LACDR/SBP C. van Hasselt 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

- ***Publication Support Dataset*** : every Project generates one or more Publications (Articles, Thesis, Posters etc.). This template has been developed to link Publications and experiments. It follows the TUDelf Best Practice and the suggestions coming from LACDR/DDS4 team. If you would like to have further information please see the README or send an email to eln-bioscience@science.leidenuniv.nl

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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

eln-bioscience@science.leidenuniv.nl