



Deltablot



eLabFTW

by Deltablot



Chapter 00

THE SOFTWARE: eLabFTW

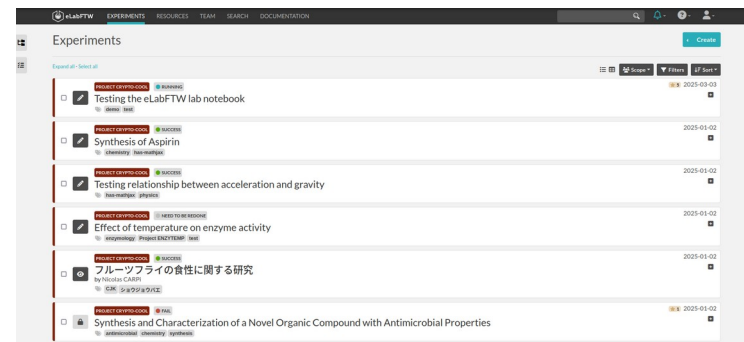


The software: eLabFTW

eLabFTW is an electronic laboratory notebook for research groups



Modernity





The software: eLabFTW

eLabFTW EXPERIMENTS RESOURCES TEAM SEARCH DOCUMENTATION

Experiments [Create](#)

Expand all - Select all Scope Filters Sort

- ☐ **PROJECT CRYPTO-COOL** RUNNING ★ 5 2025-03-03
Testing the eLabFTW lab notebook
demo test
- ☐ **PROJECT CRYPTO-COOL** SUCCESS 2025-01-02
Synthesis of Aspirin
chemistry has-mathjax
- ☐ **PROJECT CRYPTO-COOL** SUCCESS 2025-01-02
Testing relationship between acceleration and gravity
has-mathjax physics
- ☐ **PROJECT CRYPTO-COOL** NEED TO BE REDONE 2025-01-02
Effect of temperature on enzyme activity
enzymology Project ENZYTEMP test
- ☐ **PROJECT CRYPTO-COOL** SUCCESS 2025-01-02
フルーツフライの食性に関する研究
by Nicolas CARPi
CJK ショウジョウバエ
- ☐ **PROJECT CRYPTO-COOL** FAIL ★ 1 2025-01-02
Synthesis and Characterization of a Novel Organic Compound with Antimicrobial Properties
antimicrobial chemistry synthesis



The software: eLabFTW

... allows you to:

- Store digital results in a digital notebook
- Share procedures and protocols through templates
- Collaborate on scientific results
- Improve probity, traceability and integrity of results
- Use tablets or phone to access it
- Step into the XXIst century



ELN + Laboratory stock management (LIMS)

- Highly customizable database to store:
 - Antibodies
 - Plasmids
 - Cell lines
 - Chemical products
 - Equipment (and booking system)
 - Basically any kind of resource → every team can configure it



PLASMID

pET-28b(+)



PLASMID

pRS415



PLASMID

pACYC184



PLASMID

pET-28a(+)



PLASMID

pGEX-4T-1



PLASMID

pET-15b



PLASMID

pUC19



YEAST

JK9-3d



YEAST

CEN.PK113-7D



YEAST

BY4742



YEAST

DBY746



YEAST

W303



YEAST







S288C



YEAST







BY4741



<input type="checkbox"/> 2024-08-22	  Anti-Actin	ANTIBODY	Toto Le sysadmin
<input type="checkbox"/> 2024-08-22	  Anti-Cleaved PARP (Asp214)	ANTIBODY	Toto Le sysadmin
<input type="checkbox"/> 2024-08-22	  Anti-CD4	ANTIBODY	Toto Le sysadmin

This antibody targets the CD4 protein and is commonly used in immunofluorescence and western blotting. It was raised in rabbit and has an isotype of IgG.

Host	Rabbit
Isotype	IgG
Dilution for IF	1:500
Dilution for WB	1:1000
Storage temperature	-20°C

<input type="checkbox"/> 2024-08-22	  Anti-Caspase-3	ANTIBODY	Toto Le sysadmin
<input type="checkbox"/> 2024-08-22	  Anti-Phospho-AKT (Ser473)	ANTIBODY	Toto Le sysadmin
<input type="checkbox"/> 2024-08-22	  Anti-Phospho-STAT3 (Tyr705)	ANTIBODY	Toto Le sysadmin





Every team can configure their resources categories

Catégories de ressources

Ce menu vous permet de définir des catégories pour vos ressources. Une catégorie de ressources est similaire à un modèle d'expérience, mais pour les entrées de ressources.

[Créer](#)

Anticorps

Alpha



Levures

Alpha



Microscopes

Alpha



Chemical compound

Alpha



Plasmid

Alpha



Custom fields can be added to templates and experiments

Paragraphe 12pt B I U

P

Host

Rabbit

Storage temperature

+4 °C

Dilution to use for IF

Dilution to use for WB

Number of aliquots left

Make sure to decrement this when using one!

Ajouter un champs supplémentaire

Groupe

Ajouter groupe

Nouveau nom de groupe

Informations de base

Type de champs

Date

Nom (requis) *

Date de réception

Description

Entrez une description pour ce champs

Valeur par défaut

mm / dd / yyyy

Supprimer la valeur lors de la duplication

Requis

Lecture seule

Fermer Enregistrer

Ajouter un champs Charger les champs



Features of eLabFTW

- **Freedom:** published under an OSI approved license (AGPL3.0)
- **Security:** code audits, bug bounty program, good practices
- **Utility:** saves time
- **Popular:** greatly appreciated by users
- **Flexibility:** adaptable to all kinds of research
- **Accessibility:** follows WCAG 2.1 specifications
- **Internationalisation** : available in 21 languages
- **Community:** large user base from various domains



Integrity, probity, timestamping



- eIDAS qualified timestamping (910/EU/2014 - RFC 3161)
- Blockchain timestamping (Consortium BloXberg)
- Immutable audit logs
- Immutable files with integrity cryptographic sum
- Cryptographic signatures (ed25519 elliptic curves)
- Soft delete mechanism to prevent destructive actions



Centralised authentication

Login through your institution

Select an identity provider

Acme University ▲

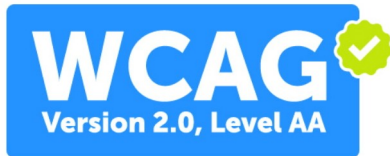
Acme University

Example Institute

- Use your institutional authentication service
- Support for federated services
- SAML or LDAP protocols



Accessibility



- Compliant with WCAG2.1 guidelines
- Level AA et AAA when possible
- Included in Continuous Integration pipeline

Download our accessibility report:

<https://www.deltablot.com/files/deltablot-accessibility-report-WCAG.pdf>



Comments

Batch actions

TK

Hans-Peter Falkenberg



German



7 hours



"Sammelaktion" has a different meaning in German. "Gebündelte Aktion" or "Bündelaktion" would be a literal translation but sounds kind of clunky. Therefore, I think that "Batch-Aktion" is good compromise.

LB

Katrin Steinbauer



German



5 hours



i have to agree

MS

Markus Hohenfeld



German



2 hours



Oder vielleicht ist etwas wie "Stapelverarbeitung" gemeint?

Internationalization

Translated into 21 languages by the user community (160+ contributors)

Each user is free to display the interface in the language of their choice



Chapter 02

SOFTWARE SECURITY



Quality and security

openssf best practices silver

▼ Basics	13/13 ●
▼ Change Control	9/9 ●
▼ Reporting	8/8 ●
▼ Quality	13/13 ●
▼ Security	16/16 ●
▼ Analysis	8/8 ●

Quality and security aspects

- Code audits by external security companies
- Bug bounty program for security researchers
- Responsible disclosure through CVE publication
- Advanced configuration options: centralized authentication, password policy, multi factor, protection against brute-force attacks, *etc...*
- Good practices of project management (OpenSSF referential)



eLabFTW: quality and security

Scan Summary



Host:	demo.elabftw.net
Scan ID #:	20518336 (unlisted)
Start Time:	July 28, 2021 2:59 PM
Duration:	6 seconds
Score:	115/100
Tests Passed:	11/11

Scan result from observatory.mozilla.org

More security aspects

- Perfect score on Mozilla's Observatory
- Services hardening
- Services containerization
- Automated vulnerabilities scanning



eLabFTW: quality and security

last week

NicolasCARPi

5.1.4

This tag was signed with the committer's **verified signature**.

NicolasCARPi
Nicolas CARPi

GPG key ID: 3F1E365415256C7E
[Learn about vigilant mode.](#)

elabimg 5.2.0 with elabftw-5.1.4 Latest

5.1.4

▼ Assets 2

- [Source code \(zip\)](#)
- [Source code \(tar.gz\)](#)

Tagged releases are signed with a GPG key and have a public build log



eLabFTW: quality and security

Summary

Jobs

Build images and push to Docker Hub...

Run details

Usage

Workflow file

Build images and push to Docker Hub summary

Docker Build summary

For a detailed look at the build, download the following build record archive and import it into Docker Desktop's Builds view. Build records include details such as timing, dependencies, results, logs, traces, and other information about a build. [Learn more](#)

[elabftw-elabimg-jm2sia.dockerbuild](#) (347.16 KB - includes 1 build record)

Find this useful? [Let us know](#)

ID	Name	Status	Cached	Duration
JM2SIA	elabimg	completed	35%	29m12s

Build inputs

Cimon Security Report - Prevent Mode

Report Summary

Finished auditing CI/CD pipeline successfully

Network Events

PID	Process	Protocol	Address	Domain	Policy
2076	git-remote-http	TCP	140.82.112.3:443	github.com	
3062	docker-buildx	UDP	34.226.69.105:9	index.docker.io	
3062	docker-buildx	UDP	54.196.99.49:9	index.docker.io	
3062	docker-buildx	UDP	3.219.239.5:9	index.docker.io	

Auditable build logs with kernel level protection against supply chain attacks



Chapter 03

OPEN SCIENCE COMMUNITY



eLabFTW: a major actor in open science and FAIR data

Founding member of The ELN Consortium

- 15+ members including other ELN editors
- Created a standardized exchange file format (.eln)
- Based on RO-Crate and JSON-LD
- Recognized as an official media type by [IANA](#)
- Increases interoperability of data (FAIR)





User reviews



polySpectra's **Cyclic Olefin Resin (COR)** enables manufacturers to **3D print durable end-use products** in numerous advanced application verticals.

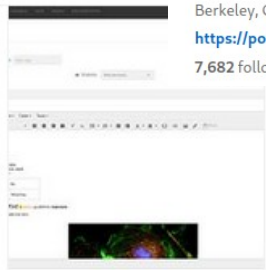


Laboratory & Engineering:

eLabFTW - free open source ELN

A free and open source electronic lab notebook for researchers.

www.elabftw.net



Raymond Weitekamp ✓ · 3rd

Founder & CEO, polySpectra | Rugged Resins for Additive Manufacturing | Forbes 30u30 - Energy

Berkeley, California, United States · [Contact info](#)

<https://polyspectra.com>

7,682 followers · 500+ connections

 polySpectra

 Caltech

I am in love with eLabFTW. As a synthetic chemist, this is the electronic lab notebook I have been waiting for (for the last decade). eLabFTW is completely free, yet it is hands-down better than LabGuru, LabArchive and CambridgeSoft's E-Notebook. Better features, better customer support, better business model — eLabForTheWin. They have done an amazing job of improving the ease of installation and maintenance over the past few years. If anyone at Institut Curie is reading this right now, please give Nico a raise ;)

Source : <https://medium.com/phd-to-ceo/an-open-source-stack-for-physical-science-startups-c83266852efc>



User reviews



Florian Strauß

14:12

"Great tool for doing and teaching good RDM practices"



alexander-haller (alexander-haller)

"Super fast developer feedback" "Easy setup and onboarding"



Lauritz Bußfeld

14:32

well maintained interdisciplinary ELN with a lively community



The Diefenbacher Lab @DiefenbacherL · Jun 25

Hey #scicenetwitter Our lab is looking for an useful #opensource labbook variant. Anyone any recommendations or experiences on that?
#AcademicTwitter #academia #Science



3



3



2



Christoph Engwer

@EngwerChristoph

Follow

Replying to @DiefenbacherL

I can highly recommend @eLabFTW. I'm using it since more than two years. It's easy to install and maintain. And more over, requests for features are listened to and implemented.



adienne_karsten | ULB MS

In reply to **NicolasCARPi**



Mahadi Xion

eLabFTW is built on top of a stable OpenAPI design that gives me confidence that my API automation scripts are future proof.

"Intuitive to use, great UI, great community, open source and generically usable!" 🚀



User reviews

The most adapted ELN software for academic research groups.

A true alternative to paper notebooks, that is simple and intuitive to use.

Garrett Curley – École Polytechnique – Laboratoire Physique des Plasmas

As an open-source tool, eLabFTW allows full customization without expensive licenses. It's great for labs that need flexibility and control over their data

Hüseyin Uzun – RDM Universität Frankfurt

A user-friendly and flexible open source tool with great support and a helpful community

Nikki Parks – Universität Aachen

Easy and simple to setup and use.

Rohit Karthikeyan



Chapter 04

THE DELTABLOT COMPANY



- Founded in 2019
- Located in Paris, France
- Operating on 4 continents
- Dedicated to helping research teams



Nicolas Carpi
President



Sydney Koke
Customer Success Manager



Moustapha Camara
Full Stack Developer



Our partners



easter eggs

Paris, France

Easter Eggs
GNU/Linux
specialists



Paris, France

Universign
eIDAS qualified
timestamping



UNIVERSAL PROBATIVE VALUE

Marseille, France

Keeex
Document integrity,
traceability, and
probity



Our team of experts



- **Marcel Bolten:** Fullstack developer



- **Hüseyin Uzun:** Video editor, german language trainer



- **Simon Bekemeier:** German language trainer



- **Manon Stripes:** UI/UX design



- **Anders Märak Leffler:** Cybersecurity specialist



Our customers





Make Open Source Great Again

- We maintain open source projects
- We contribute to open source projects
- We donate to open source projects
- We are member of APRIL association for the promotion of free and libre software

Learn more: <https://www.deltablot.com/opensource/>



Make Our Planet Great Again

Deltablots has a carbon reduction plan through ecologi.com



Visit our forest: <https://ecologi.com/deltablots>



Chapter 05

CHOOSE YOUR PLAN



Hosted by us in the cloud or
by you on your network

1 **PRO HOSTING**
We take care of everything (SaaS)

2 **PRO SUPPORT**
We help you deploy eLabFTW on your
network and provide support (On-Premise)



1. PRO Hosting

- Hosted close to you:
 - Europe → Paris, France, optionally in the SecNumCloud environment
 - North America → Toronto, New York, or San Francisco
 - Japan, Australia → Tokyo
- Dedicated eLabFTW instance
- Custom domain name
- eIDAS qualified timestamping tokens included
- Fully managed backups and updates
- Ransomware protection
- Infinite updates
- Includes PRO Support



1. We take care of everything **PRO Hosting**



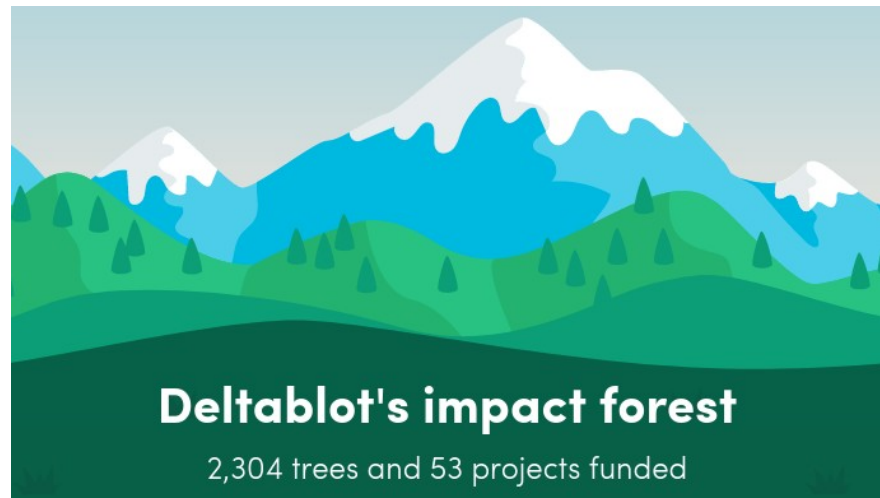
Instance size	Active users max	Yearly cost	SecNumCloud
S	32	2 985 €	4 985 €
M	128	3 985 €	6 985 €
L	128+	4 985 €	7 985 €



2. Support for self-hosting **PRO Support**

- We help you implement eLabFTW within your IT system
- User training (webinars) in French, English or German
- Access to sandbox instance
- 20% discount on custom development requests
- 1000 eIDAS qualified timestamping token

1 789 € / year





Contact us

contact@deltablott.email