



labguru

ELN solution for DTU

Introduction to Labguru

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The Agenda

- » Short introduction and overview of Labguru
- » Live demo
 - » The structure of Labguru
 - » The basic modules of the ELN
 - » Planning and executing research
 - » More modules you can find in Labguru



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Labguru

- » Combining ELN with LIMS

While the ELN part is the central part of the service the LIMS completes it.

- » Online, cloud-base system

Access to your data from everywhere and anytime. All your data at one place accessible 24/7.

- » Access anytime, from anywhere

We're continuously rolling out updates and bug fixes to the service

- » Secured system with daily and monthly backups

You can choose between our cloud, private cloud or local install

- » All information owned by researchers

- » Support and customer care

We believe that the on-going communication with our users is key to our success. We welcome any feedback frequently incorporate suggestions and remarks into the system.

Login Page

The logo for Labguru, featuring the word "labguru" in a purple, lowercase, sans-serif font. The letter "g" is stylized with a circular element.

Sign in to your Labguru account

Sign in

[Forgot my password](#)

- » Only researchers that are part of one account can enter and access the data.
- » The account owner, which is usually the professor or the head of the research group, can invite new members and locked the users of members who have left the research group.



Latest experiment results

[New Experiment](#)

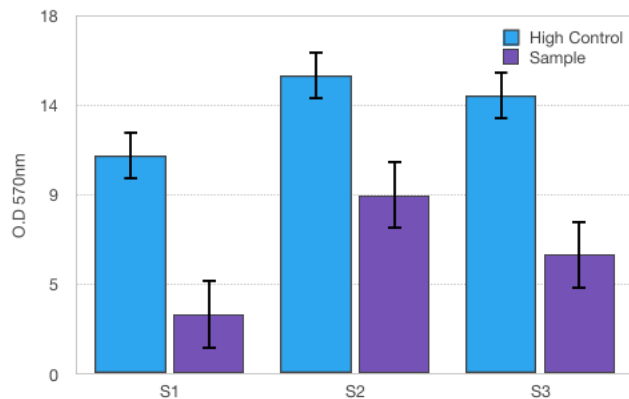
Colorimetric assay for RBP5

Project: The role of RMP5 (subunits of RNA polymerase II) in transcriptional regulation

Folder: RMP specifically interacts with RPB5 in vitro

Updated by: [Emma Campbell](#) | June 30, 2016

Potassium dichromate treatment showed an increase in the activity of CAT in both liver and kidney homogenates. The highest doses (7.5 and 10 mg/kg) showed a significant increase in the activity of CAT in both organs when compared with the control. However, the trend was found to be different, that is, kidney exhibiting a slightly more CAT activity than the liver. The CAT activity was expected to rise in response to the tissue trauma.



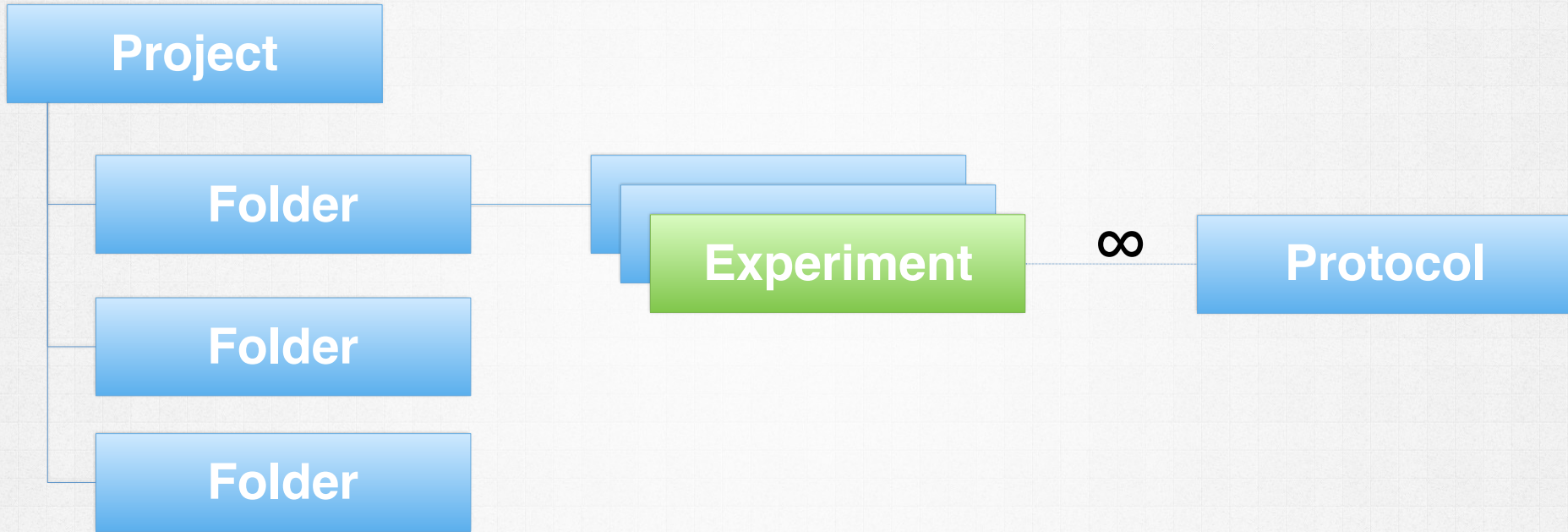
» The head of the research group will be directed after the login to the Recent Results page, to get immediately the lab important updates, which are usually the results.

My Dashboard

The screenshot shows the labguru dashboard interface. At the top, there is a navigation bar with 'labguru' and 'Support' on the left, and 'e-Notebook', 'Knowledgebase', 'Inventory', 'Storage & Equipment', and 'Recently Viewed' on the right. Below the navigation bar, there is a calendar for 'June 29, 2016' with a 'Full calendar' link. The calendar shows a grid for the day, with a purple block from 10:00 to 14:15 labeled 'Colorimetric of catalase activity' and a blue block from 14:30 to 16:00 labeled 'Submission the documents for InTilab'. To the right of the calendar, there is a 'New Experiment' button and a section titled 'Your activities | All lab activities'. The activities list includes: 'Added a new experiment Experiment 001 to folder Expression of RMP mRNA and protein in mammalian cells in project The role of RMP5 (subunits of RNA polymerase II) in transcriptional regulation', 'Started the milestone The RPB5-binding region resides in the region shared by the positive clones in The role of RMP5 (subunits of RNA polymerase II) in transcriptional regulation', 'Unsigned the Experiment Colorimetric assay for RBP5', 'Signed the Experiment Colorimetric assay for RBP5', and 'Signed the Experiment Colorimetric assay for RBP5'. A comment is added to the 'Colorimetric assay for RBP5' experiment: 'The CAT activity is very low compare to what we so before, do you think it worth repeating the experiment with an higher concentration?'. There is also an attachment 'Final Graph.jpeg' to the 'Colorimetric assay for RBP5' experiment, which is a bar chart showing 'OD600' on the y-axis and 'Time (min)' on the x-axis. The chart has four bars with values approximately 0.8, 0.3, 1.2, and 0.6. Below the chart, there are two more attachments: 'IL10 calibration 02-19-2013.rex' and 'percentage of CO2.xlsx' to the 'Colorimetric assay for RBP5' experiment.

- » It serves like a journal, navigate between dates for planned events and old achievements .
- » The lab activities to find records of the latest activities of the lab colleagues

The structure of the ELN (the e-Notebook)



- » Each project is composed of **folders**
- » **Experiments** are the building blocks of the research
- » Protocols serve as templates to experiment in order to save time

Experiment

The screenshot displays the Labguru web interface. At the top, there is a navigation bar with 'Support' and 'Emma Campbell Lab'. Below this is a secondary navigation bar with tabs for 'e-Notebook', 'Knowledgebase', 'Inventory', 'Storage & Equipment', and 'Recently Viewed'. The main content area shows the title 'Colorimetric assay for RBP5' by Emma Campbell, with options to 'Sign', 'Print', and 'More'. A 'tag this item' button is also visible. The 'Description' section is highlighted, and a 'More' dropdown menu is open, showing options: 'Add spreadsheet', 'Add steps', 'Add samples', 'Add plate' (with a 'Select size' dropdown), 'Add compound', 'Add reaction', 'Move up', 'Move down', and 'Delete section'. The description text is partially visible, mentioning 'subcellular organelle', 'ferrihemoprotein groups', and 'microbodies'. Below the description, there are buttons for 'Add section' and 'Load from protocol...'. The next section is titled 'Colorimetric of catalase activity' and includes a date range 'Jun 29, 2016 @ 10:00 to Jun 29, 2016 @ 14:15' and a paragraph of text describing catalase activity.

- » Basic layout that can fit different types of experiments.
- » Built out of sections and different elements inside - text, spreadsheet, steps, plate, reaction and compound

Uploaded files

The screenshot shows a web interface with a top navigation bar containing a 'More' dropdown and a 'Save' button. Below this is an 'Attachments' section with three file cards: 'Raw data - analysis1.xlsx' (53.7 kB), 'Results from last measurement.xlsx' (5.2 kB), and 'IL10 calibration 02-19-2013.rex' (207.6 kB). A 'download all' link is present. Below the attachments is an 'Upload a file' button with the instruction 'or drag & drop a file onto this area'. The main content area is titled 'Table' and displays a data table with columns A through F. The table has 17 rows, with the first row as a header and the remaining rows containing numerical data. The table is viewed in a spreadsheet-like format with a 'Sheet1' tab at the bottom.

	A	B	C	D	E	F
1	channel #	Degrees of freedom	P=0.05	P=0.01	P=0.001	P=.0001
2	1	1	12.706	63.657	636.619	6366.198
3	2	2	4.303	9.925	31.599	99.992
4	3	3	3.182	5.841	12.924	28
5	4	4	2.776	4.604	8.61	15.544
6	5	5	2.571	4.032	6.869	11.178
7	6	6	2.447	3.707	5.959	9.082
8	7	7	2.365	3.499	5.408	7.885
9	8	8	2.306	3.355	5.041	7.12
10	9	9	2.262	3.25	4.781	6.594
11	10	10	2.228	3.169	4.587	6.211
12	11	11	2.201	3.106	4.437	5.921
13	12	12	2.179	3.055	4.318	5.694
14	13	13	2.16	3.012	4.221	5.513
15	14	14	2.145	2.977	4.14	5.363
16	15	15	2.131	2.947	4.073	5.239
17	16	16	2.12	2.921	4.015	5.134

- » Inline attachments
- » Any type of file can be uploaded. Excel spreadsheets and PDFs can be added to a page to be part of the experiment.
- » All office files can be viewed and edited in Labguru.

More sections

Results

Potassium dichromate treatment showed an increase in the activity of CAT in b... significant increase in the activity of CAT in both organs when compared with th... slightly more CAT activity than the liver. The CAT activity was expected to rise in

Sample	High Control (O.D. 570nm)	Sample (O.D. 570nm)
S1	~11.5	~4.0
S2	~15.5	~9.0
S3	~14.5	~6.5

enates. The highest doses (7.5 and 10 mg/kg) showed a... and was found to be different, that is, kidney exhibiting a... ma.

A method for purification, identification and validation of DNMT1 mRNA binding proteins

A Method of Removing Contaminating Genomic DNA from an RNA Sample to be Used for PCR

An Effective Method of Completely Removing Contaminating Genomic DNA


- » More sections can be added, plain sections or pre-populated with protocols.
- » Images can be embedded to be part of the text

Signature

Colorimetric assay for RBP5

✓ Signed by Emma Campbell on July 1, 2016 at 06:23

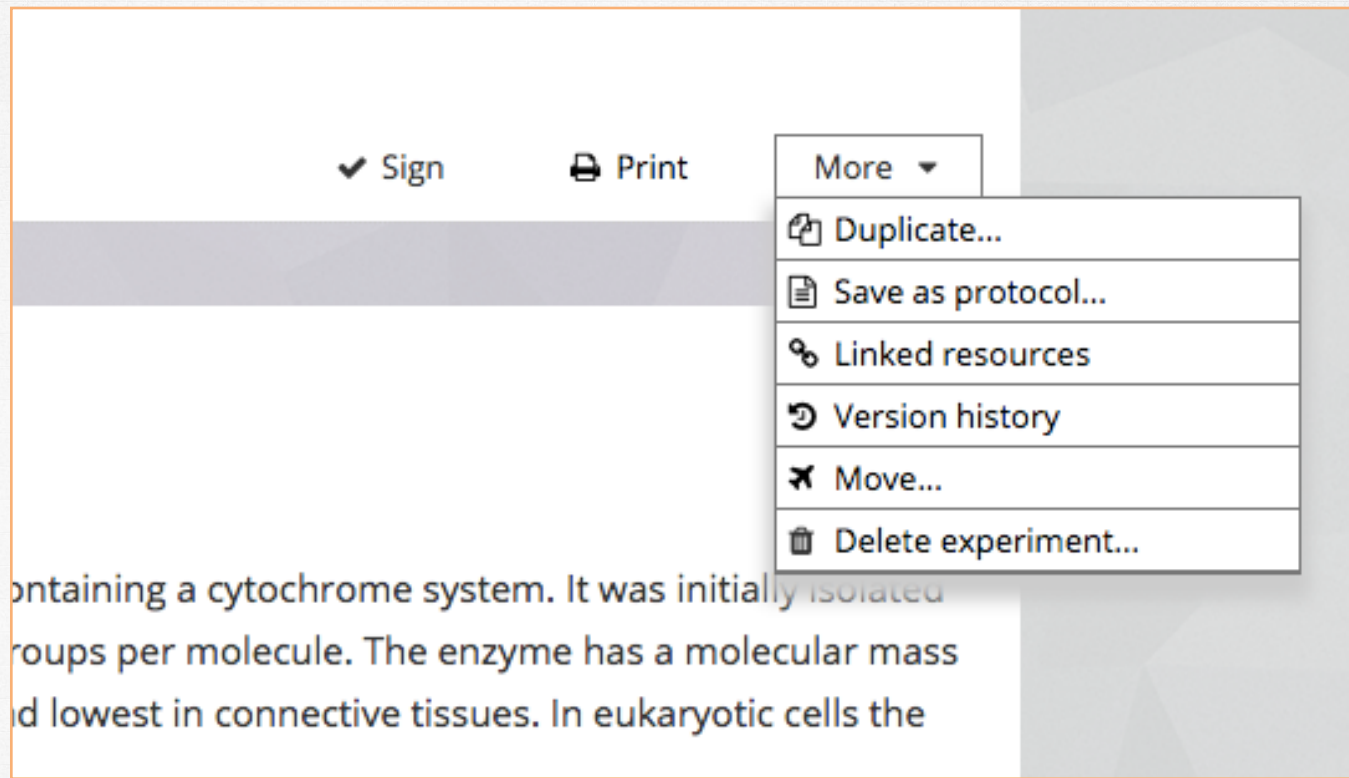
Emma Campbell

 Revert signature

Description

- » Two-Steps of authentication - sign by the owner of the experiment and witness by authorized member
- » Signatures can be reverted, witness cannot.

More functions



- » Duplicate experiment to a new one or saving it as a template protocol (without the results section)
- » Print to PDF
- » Move to a different folder

Comments

liver and kidney homogenates. The highest doses (7.5 and 10 mg/kg) showed a control. The LSC assay but is useful as a visual confirmation of assay slightly more **CAT activity** than the liver. The CAT activity was expected to rise in



Emma Campbell
Jun 29, 2016 15:19

The CAT activity is very low compare to what we so before, do you think it worth repeating the exper...

[Show more](#)

2 members notified

Reply...

- » Inline comments
- » Comment can be sent as notification by email to recipients
- » Members can reply a comment in a thread

Project track

The role of RMP5 (subunits of RNA polymerase II) in transcriptional regulation

New Experiment ▾

Emma Campbell

Progress




Attachments (19)

Key Papers (2)

Notes

Documents

Calendar

 Add Folder |  Archive |  Delete |  Share |  Duplicate |  Assign |  Report ▾

Start date



No start date selected

Visible to

Selected members:



Alex Cameron



Emma Campbell (Me)

Description

+

▶ Completed

1

▶ In Progress

2

▶ Planned


4

- » Set the visibility for the account's members
- » Project track for planning and ensuring progress
- » 3 areas for folders - Completed, In progress and Planned

Connections and links throughout Labguru

List of materials

Samples & Reagents

#	Type	Name	Stock
1	Material	3% H2O2	 3% H2O2 Jun 29, 2016 08:45:32

[add a section](#)

- » Samples table in experiment and protocols links the Inventory collections to experiments
- » Ensure you use the right samples and keep the connection for future reference

Inventory collections

Inventory > Consumables > 3% H2O2

3% H2O2 [Add to shopping list](#)

Info | Stocks | Order History | Experiments And Protocols

[Edit](#) | [Duplicate](#) | [Delete](#) | [Move to](#) | [Print](#)

Manufacturer:	Boster Immunoleader
Catalog number:	AR1108
Owner:	Ethan Griffith
Units:	50ml
Created at:	2016-06-29
Web page:	Click Here

Description:
3% H2O2, 3% hydrogen peroxide is used to inactivate endogenous peroxidase found in some cell and tissue types that may react with the substrate creating higher levels of background noise. IHC related reagent

- » All the information regarding one samples is kept in designed collection
- » Link back to the experiment or protocol
- » Shopping list module to manage orders internally

Stocks and tubes







- » Stocks to represent the physical entity of a sample
- » Can be marked as consumed and set stock alert

3% H2O2

Info Stocks Order History Experiments And Protocols

No stock alert was defined

[Edit selected](#) | [Tag](#) | [Mark as consumed](#) | [Add Stock](#) | [Stock alert](#)

<input type="checkbox"/>	#	Type	Name	Description	Storage	Info		
<input type="checkbox"/>	2861	Tube	3% H2O2 Jun 29, 2016 08:45:32		Lab Room ▶ Common Fridge ▶ Top ▶ Material Box	Color 		
<input type="checkbox"/>	2871	Bottle	3% H2O2		Lab Room ▶ Common Fridge ▶ Top	Stored on: 2016-06-29 By: Emma Campbell Units: 50ml Color 		

Stocks and tubes

Storage: Lab Room (Room) ▶ Common Fridge (Refrigerator) ▶ Top (Shelf)

Box View Table View

Edit selected | Mark as consumed | Print labels

Click to re-position Click to duplicate

	1	2	3	4	5	6	7	8	9	
A	dNTP Mix 2015-05-11 1	dNTP Mix 2015-05-11 2	Taq DNA ... 2016-03-29 3	Taq DNA ... 2016-03-29 4	Sucrose 2016-03-31 5	Sucrose 2016-03-31 6	Sucrose 2016-03-31 7	Geraniol 2016-03-31 8	Geraniol 2016-03-31 9	
B	SuperScr... 2016-06-20 10	1-Hexanol 2016-03-31 11	1-Octanol 2016-03-31 12	1-Octanol 2016-03-31 13	1-Octanol 2016-04-04 14		3% H2O2 ... 16	Geraniol 2016-03-31 17		18
C							Isopropano 2016-04-03 25	Isopropano 2016-04-03 26		27
D	Sodium A... 2016-04-03 	Sodium A... 2016-04-03 		Taq DNA ... 2016-04-05 36	Taq DNA ... 2016-04-05 	Taq DNA ... 2016-04-05 		Sodium A... 2016-04-03 	Sodium A... 2016-04-03 	36
										45

- » Storage locations can be described up to a tube in a box
- » Stocks can be imported and exported, like the rest of Labguru

Collections

Account Settings

General Collections Data Export Labelguru

Custom Collections

✘ Pseudomonas (customize) ✘ Serum (customize)
✘ Work Request (customize)

*

Collections

Please select one or more of the pre-defined model organisms, or create your own customized model

<input checked="" type="checkbox"/> Antibodies (customize)	<input checked="" type="checkbox"/> Flies (customize)	<input checked="" type="checkbox"/> Plasmids (customize)
<input type="checkbox"/> Bacteria	<input type="checkbox"/> Fungi	<input type="checkbox"/> Primers
<input type="checkbox"/> Botany	<input type="checkbox"/> Genes	<input type="checkbox"/> Proteins
<input checked="" type="checkbox"/> Cell Lines (customize)	<input type="checkbox"/> Lipids	<input checked="" type="checkbox"/> Rodents (customize strains)

» The account can be customized to offer the relevant collections¹⁵⁾

» Collections can be customized to have the relevant fields

Good luck!

» For support:

- Email: support@labguru.com
- In-app messages - look for this icon on the bottom

» Knowledgebase center and Feedback forum -
labguru.uservoice.com

