



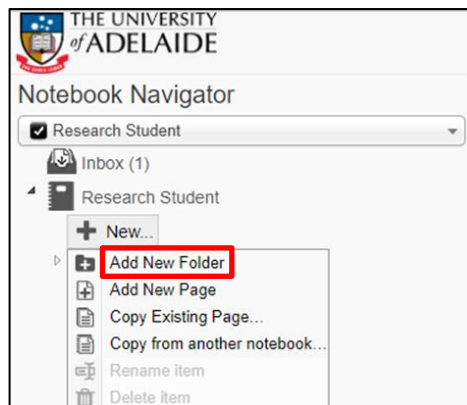
LabArchives

Experiment or study design

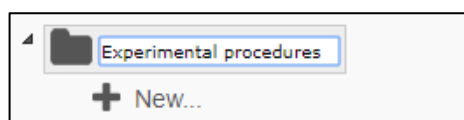
Experimental procedures and/or study designs are important in many types of research. In this guide you will find suggestions for using LabArchives to record each iteration or draft of the experimental procedure or study design, as well as any preliminary results.

Initial workbook set up

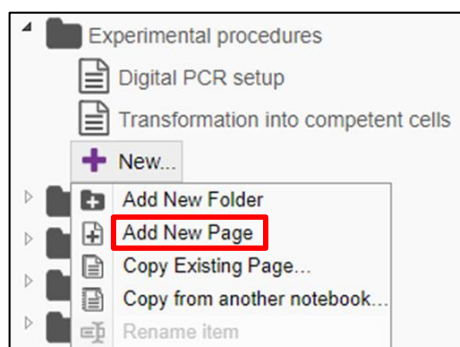
1. Click on the **New** icon in your notebook directory and select **Add New Folder**.



2. **Name the new folder.** An example is: Experimental procedures or Study designs.

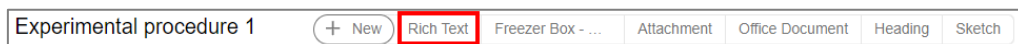


3. Each experimental procedure or design for a study can have its own page within this folder. Click on the **New +** icon in the Experimental procedures or Study designs folder and select **Add New Page**. Name the new page something descriptive.



Designing experimental procedures or a study

1. Once you have created a page for your experiment procedures or study designs, these can be developed in a rich text entry. Click on the **Rich Text** option in the **Add Entry** list to create an entry for the experiment or study.



2. When altering or updating a study/procedure you can either:
 - a. Edit the existing entry via the **pencil icon**, accessing the revision history for previous iterations via the **ellipsis icon** for the entry.

Transformation into competent cells + New Rich Text F

hide revisions: Copy

Date and	Links... Tags...	Entry version #	Revised by	Revised by ip	Revision Action
Nov 15, 2023	Move to page...	3	Karen McAllister	129.127.69.174	edited
Nov 15, 2023	Delete...	2	Karen McAllister	129.127.69.174	edited
Nov 15, 2023	Print...	1	Karen McAllister	129.127.69.174	added

Transformation into competent cells **View revisions**

1. Remove competent cells from -80°C and place on ice.
2. Add 1-5 µl containing 1 pg-100 ng of plasmid DNA to the cell mixture. I normally put 2.5 µl.
3. Place the mixture on ice for 30 minutes.
4. Heat shock at exactly 42°C for exactly 90 seconds. Do not mix.
5. Place on ice for 1 minute.
6. Pipette 950 µl of room temperature SOB and 20 µl 20% glucose into the mixture.
7. Place at 37°C for 90 minutes. Shake vigorously (250 rpm) or rotate.
8. Centrifuge 2 mins, 10,000 rpm.
9. Remove 900 µl supernatant.
10. Resuspend pellet in remaining solution.
11. Spread remaining 50 µl onto an ampicillin plate and incubate overnight at 37°C.

- b. Create a new **Rich Text** entry for any edited versions of the procedure/study for easy viewing.

Transformation into DH5α cells

1. Remove competent cells from -80°C and place on ice.
2. Add 1-5 µl containing 1 pg-100 ng of plasmid DNA to the cell mixture. I normally put 2.5 µl.
3. Place the mixture on ice for 30 minutes.
4. Heat shock at exactly 42°C for exactly **120 seconds**. Do not mix.
5. Place on ice for 1 minute.
6. Pipette 950 µl of room temperature SOB and 20 µl 20% glucose into the mixture.
7. Place at 37°C for 90 minutes. Shake vigorously (250 rpm) or rotate.
8. Centrifuge **5 mins**, 10,000 rpm.
9. Remove 900 µl supernatant.
10. Resuspend pellet in remaining solution.
11. Spread remaining 50 µl onto an ampicillin plate and incubate overnight at 37°C.



3. Preliminary results can either be:
 - a. Recorded below the procedure or study design as entries in rich text, attachments or whichever entry type best suits the data.
 - b. Recorded on a separate page within the same folder.

Contact Us

For further support or questions, please contact ITDS on +61 8 8313 3000 or <https://uniadelaide.service-now.com/myit>