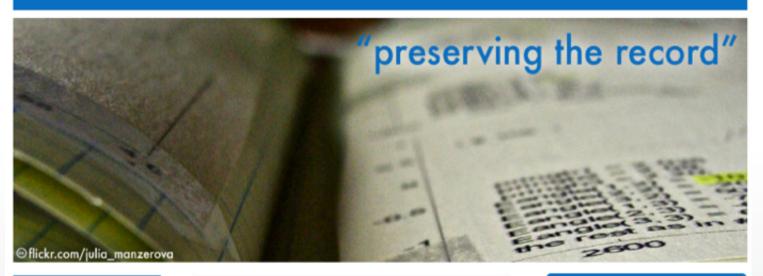
Generating metadata for an experiment: using a tablet ELN

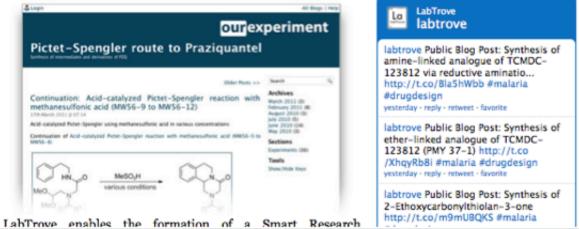
Cerys Willoughby, Jeremy G Frey, Simon J Coles, Susanne Coles.

LabTrove



- About Us
- Get LabTrove
- Documentation
- Support
- Publications
- Users
- Contact Us

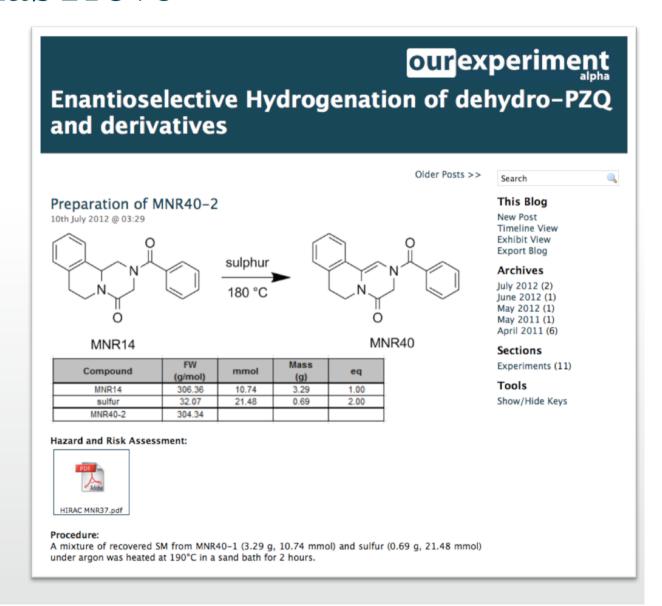






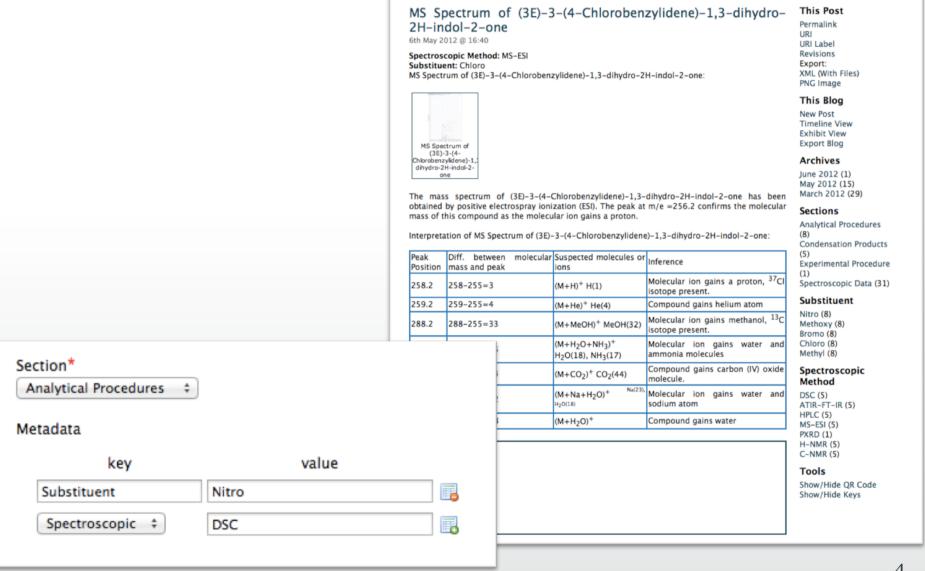
Metadata in LabTrove

Automatic capture of metadata



Metadata in LabTrove





Metadata Survey

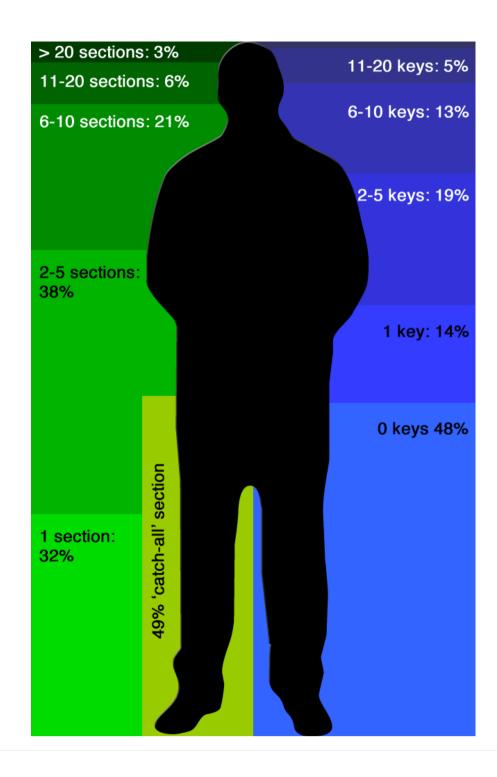






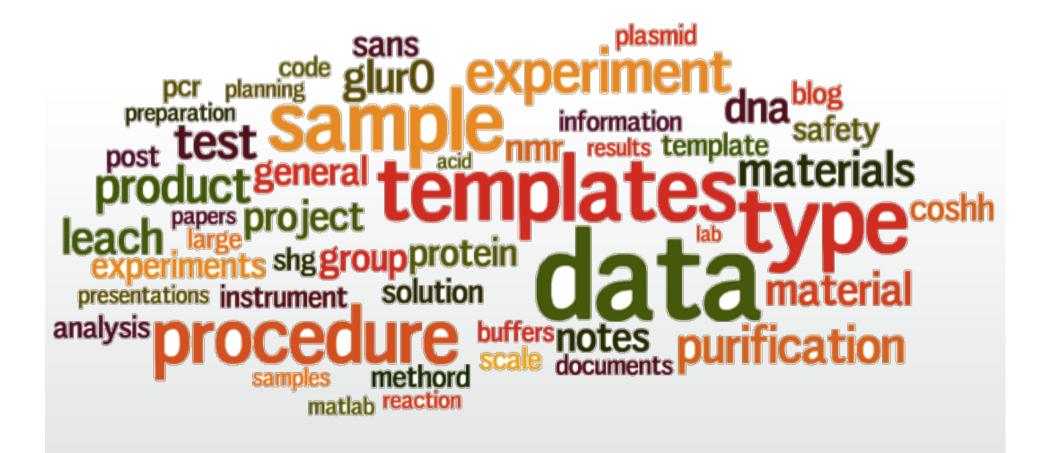
104 blogs

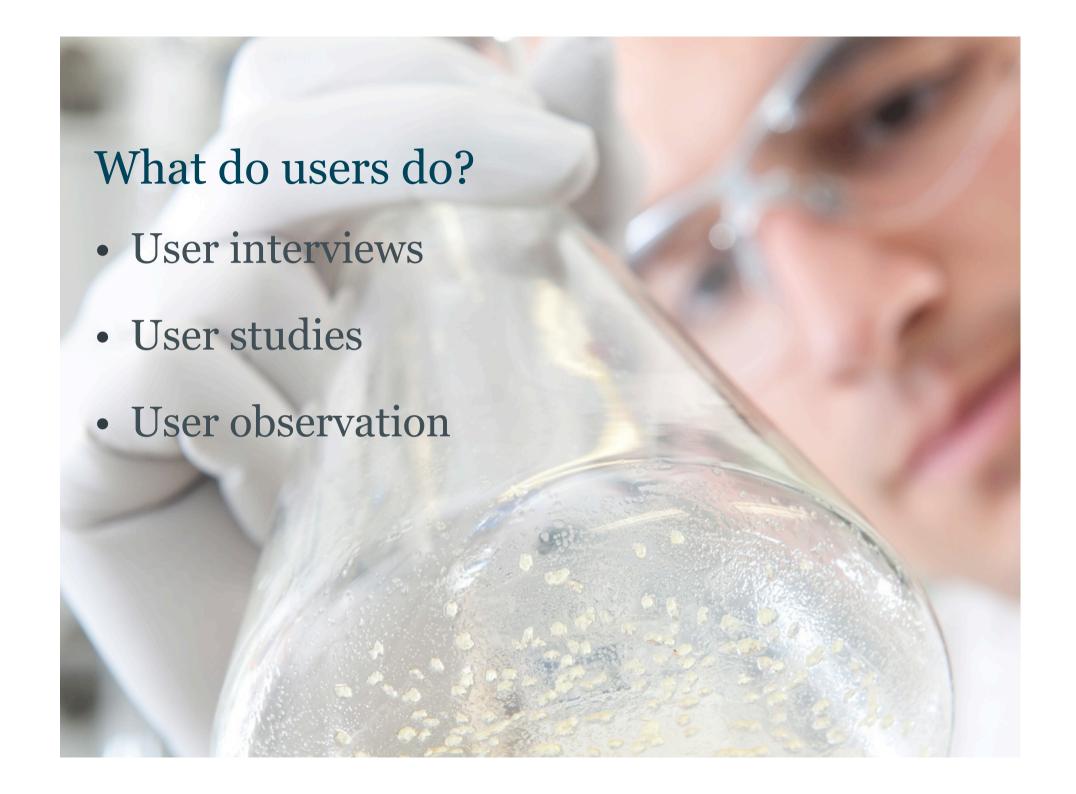
A big proportion of our users are not really adding metadata!



Southampton

Knowledge of how users already use metadata can help others

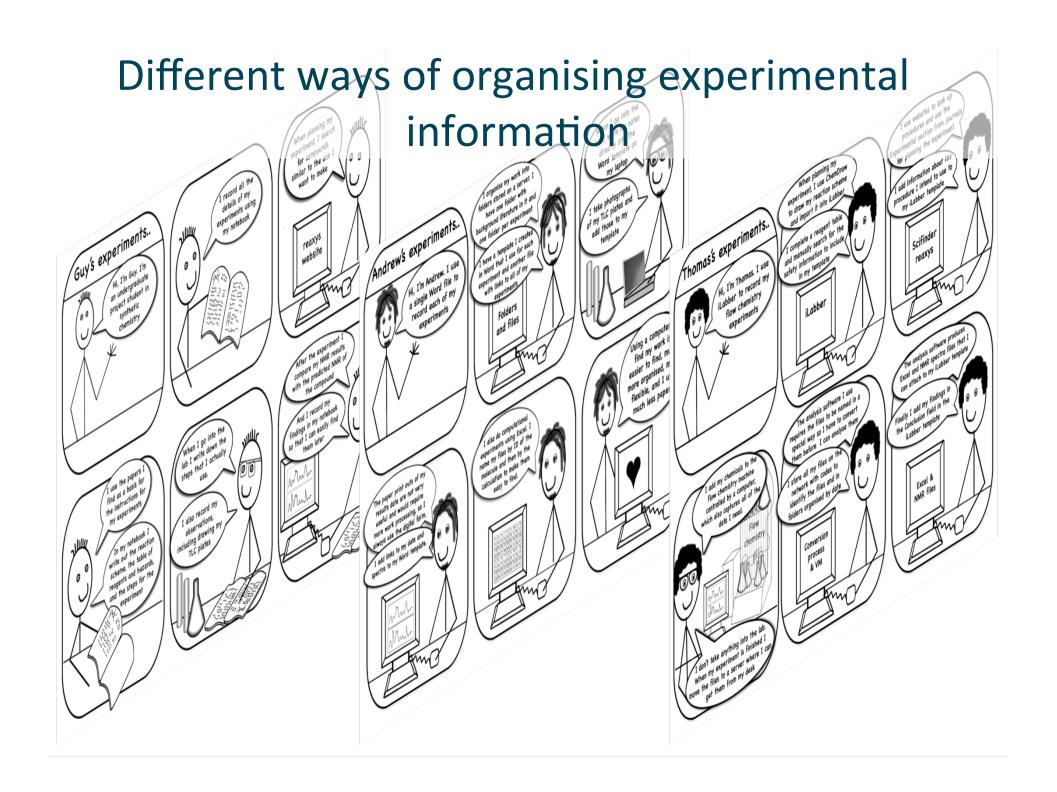


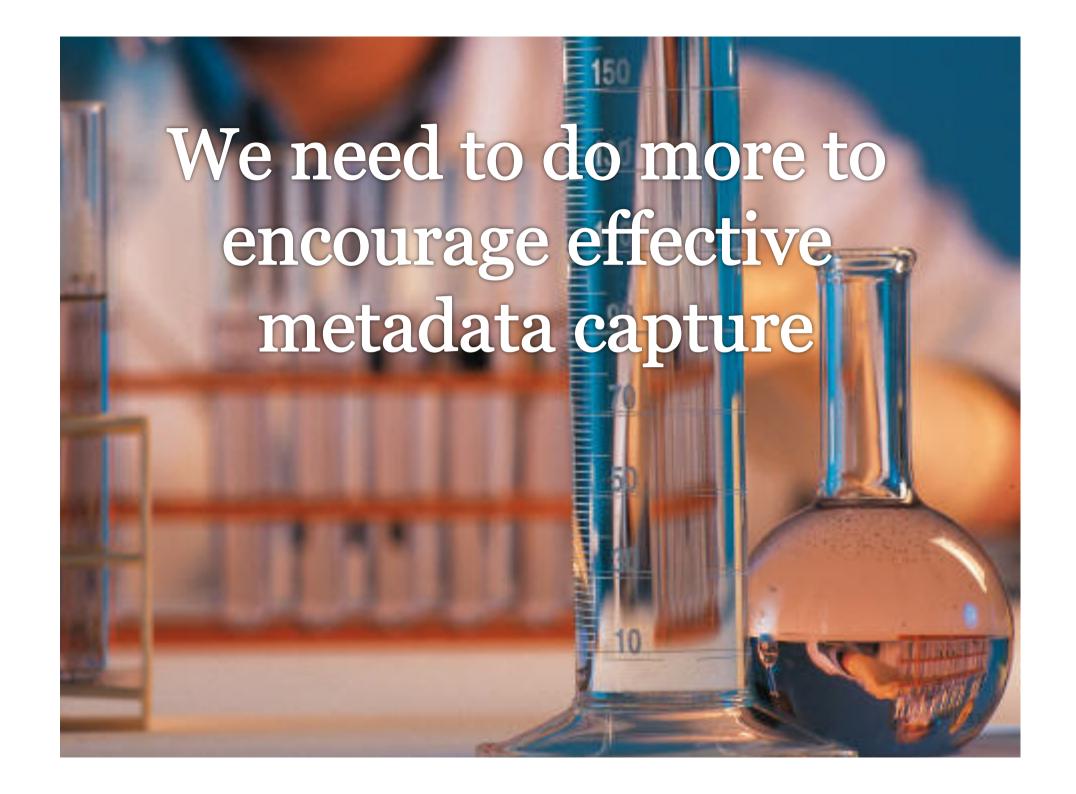


Metadata anxiety



- 'Blank canvas' effect
- Consistency
- Duplication
- Mistakes
- Inappropriate metadata





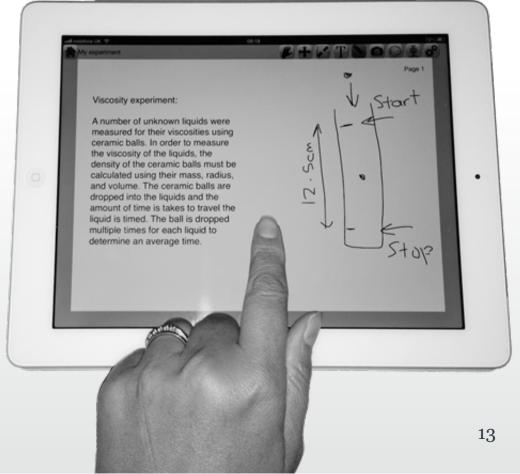


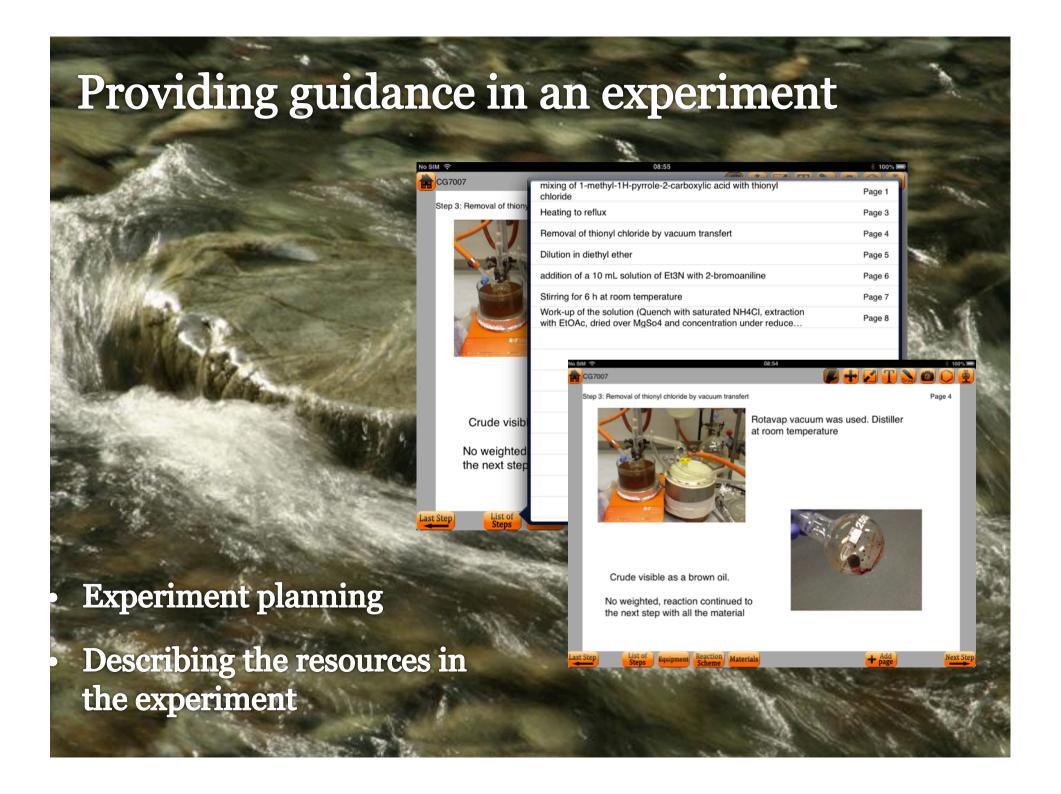
Developing a mobile ELN





Southampton





Southampton

Also an opportunity to capture metadata





Metadata for every experiment

Configure the settings for your experiment

Project name: Polymorphism advanced practical

Sub-project name: Crystallisation

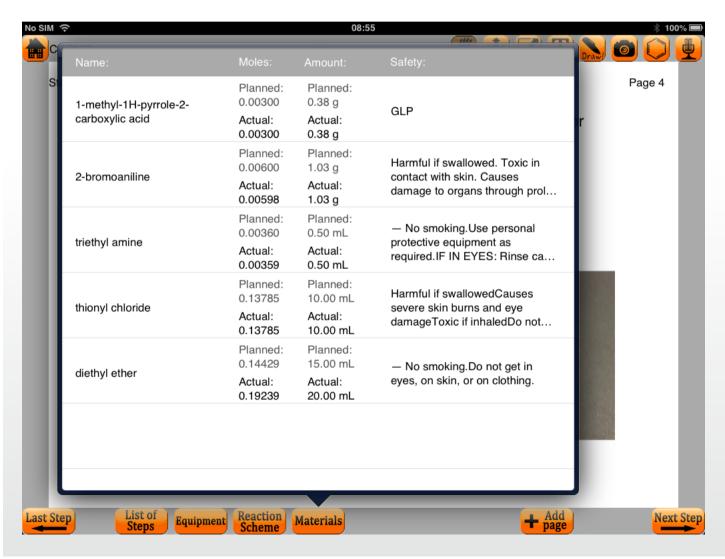
Conditions: water

0.5g glycine in 20ml water. Heat to 60degs until dissolved. Crystallise by slow evaporation

Keywords: glycine, polymorphism, crystallisation

Separate keywords using commas

Metadata derived from the plan



XML





Provenance for the plan

```
about-plan
id Aspirin101
name Synthesis of aspirin plan
author Notelus
```

Pre-populating information about the experiment

```
about-experiment
   project-name Notelus help
   sub-project-name Example plan
   conditions Synthesis
   description. The synthesis of aspirin, the isolation and purification of aspirin, and the est...
  keywords
      keyword aspirin
      keyword synthesis
      keyword purification
     keyword isolation
```



Materials

```
material

material—Acetic Anhyride

material—description Acetic anhydride, or ethanoic anhydride, is the chemical compound w

material—safety Harmful on contact with skin – causes serious burns.

molecular—weight 102.09

density 1.08

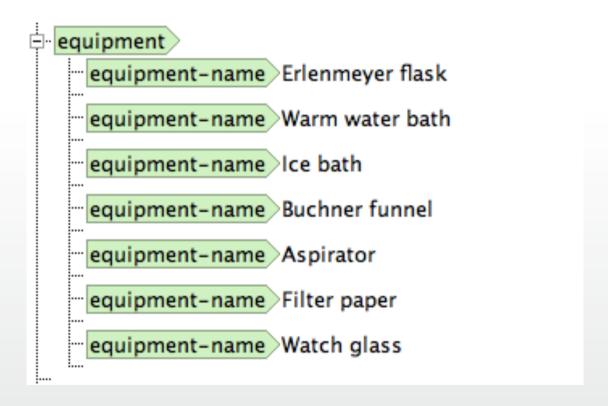
ratio 1

planned—amount 3.50

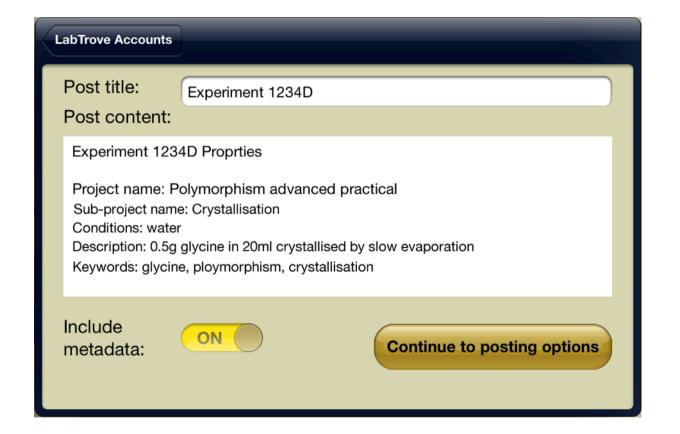
planned—amount—unit mL
```



Equipment



Getting the metadata into LabTrove



Plan Id

01 (1) Notebook From Plan (2) Test02 (1)

Plan Author

Notelus(1) Cervs (2)

Material

95% Ethanol (3) Acetic Anhyride (3) Acetylsalicylic Acid (3) Concentrated H2SO4 (3) Salicylic Acid (3)

Equipment

Kettle (3) Mug (3) Spoon (3)

Project

Polymorphism Practical (1) Project Notelus (1) Crystallography (1) Viscosity (1) Project X (2)

Sub-Project

Ceramic-ball Dropping (1) Eclipse Sub Project (1) Notelus-test-import-plan (1) Crystallisation (1)

Conditions

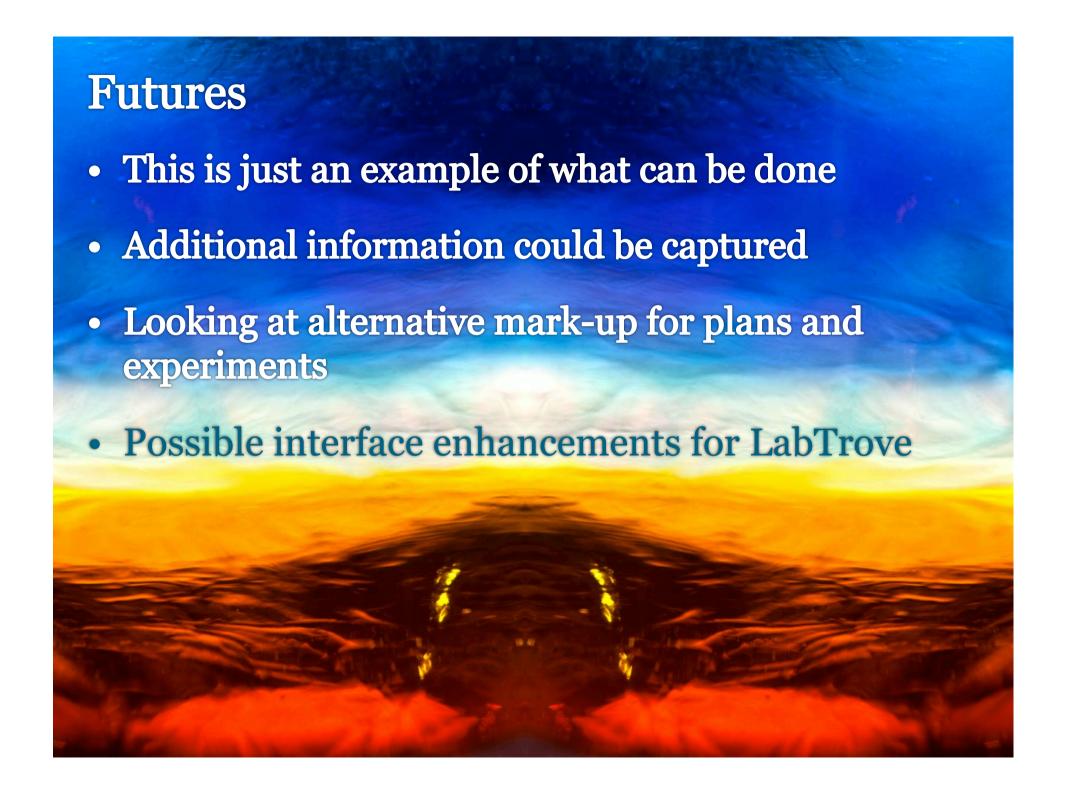
Cool (1)
Nitrogen atmosphere (1)
Heated (1)
Evaporation (1)
Dilutions (2)
Viscosity, Time (1)

Keyword

crystallisation (2) glycine (2) polymorphism (2) AB7 (2) Topic 1 (1) Topic 2 (1) Topic 3 (1) Y29 (1)

Plan Name

Vis01 (1) Polymorphism Practical (1)



 We can do more to encourage effective metadata capture in LabTrove as well





Southampton Southampton





LabTrove - Aurora

CerysTest

What would you like to post?













Search

This Notebook

New Post Notebook Settings Timeline View Export Notebook Feed (+Comments)

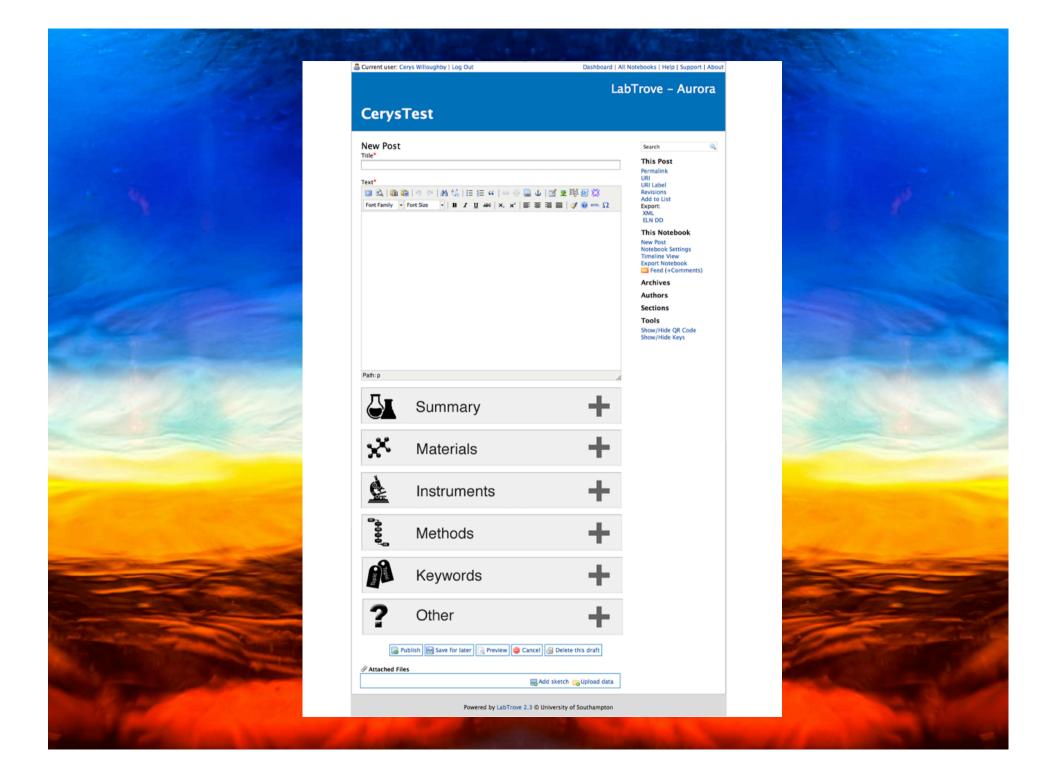
Archives

Authors

Sections

Tools

Show/Hide Keys





Summary

Experiment reference
Project
Conditions
high-pressure X low-temperature X nitrogen-atmosphere X
Choose from your conditions
Time period From: To: September \$ \$ October \$ \$
Description
Save Cancel



Summary





Materials

What materials are you using in your experiment?

		Add
triethyl amine X	2-bromoaniline X 1-methyl-1H-pyrrol	e-2-carboxylic acid X
diethyl ether X	thionyl chloride X	
		Choose from your materials
Add recommen	ded materials using ChemSpider	



Instruments

What instruments are you using in your experiment?

