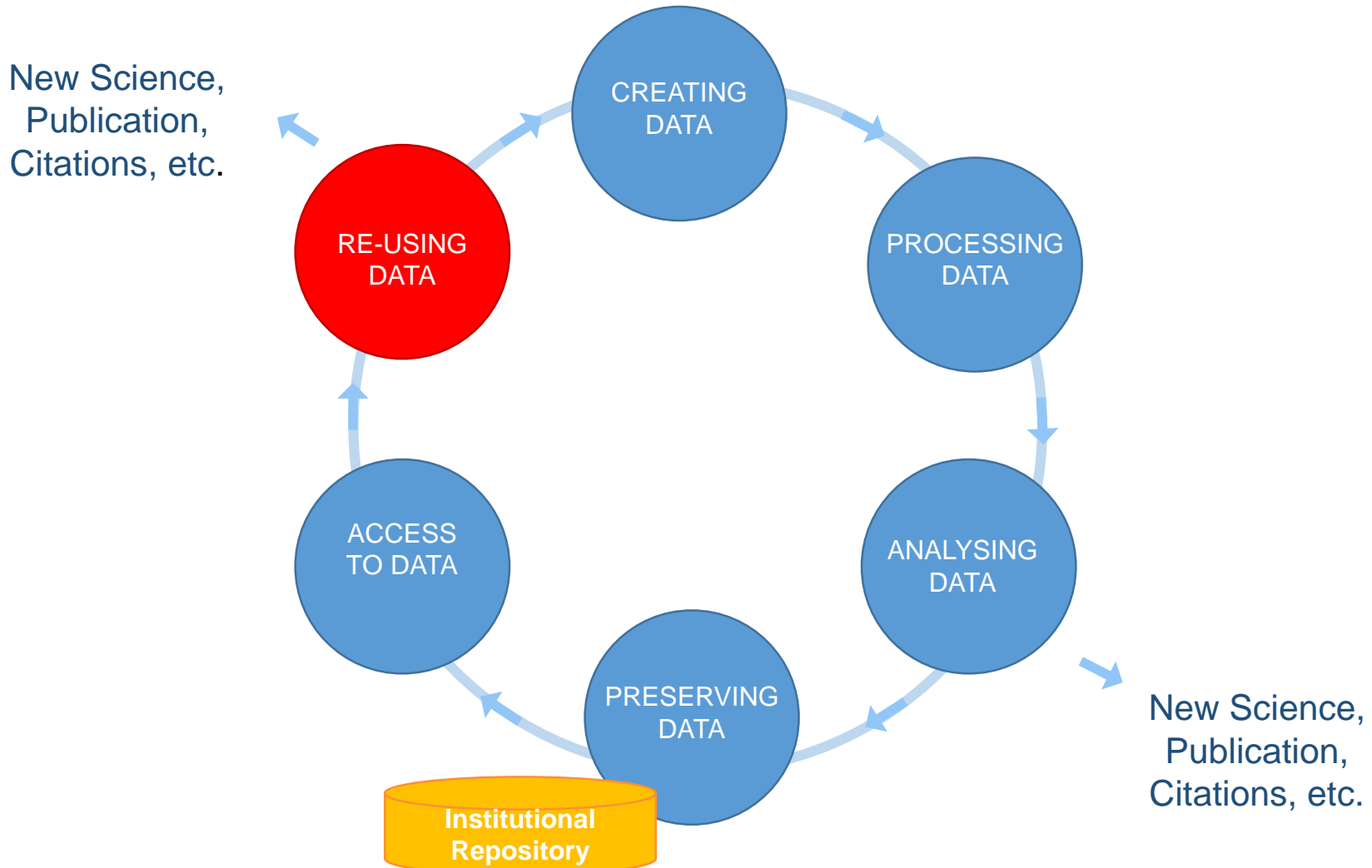
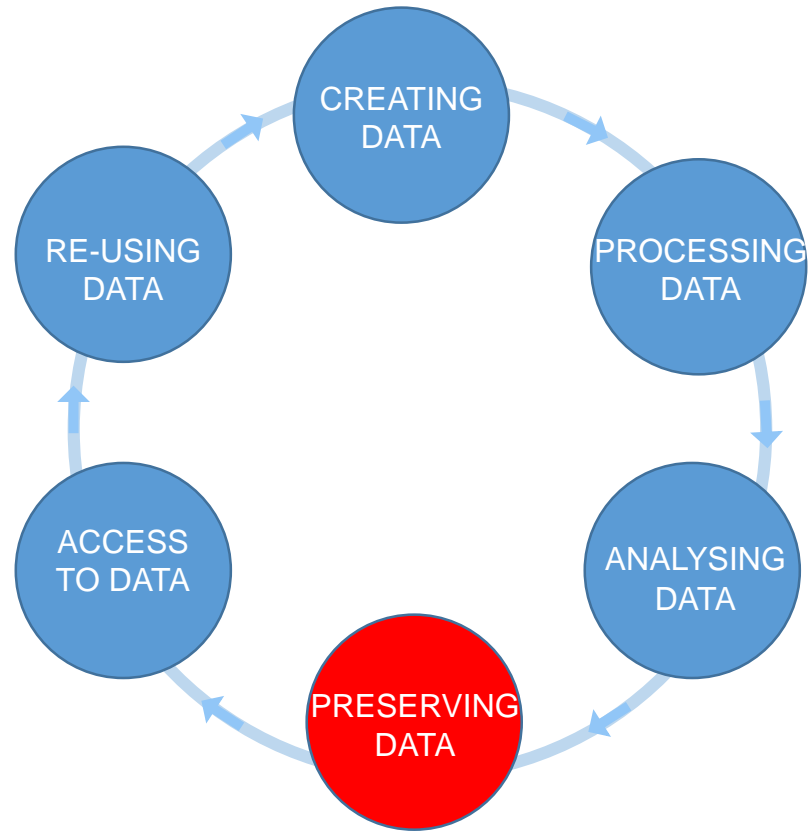
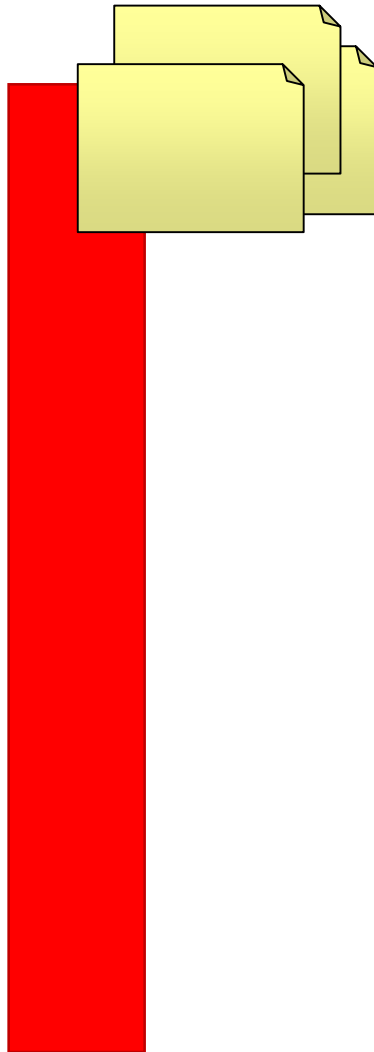


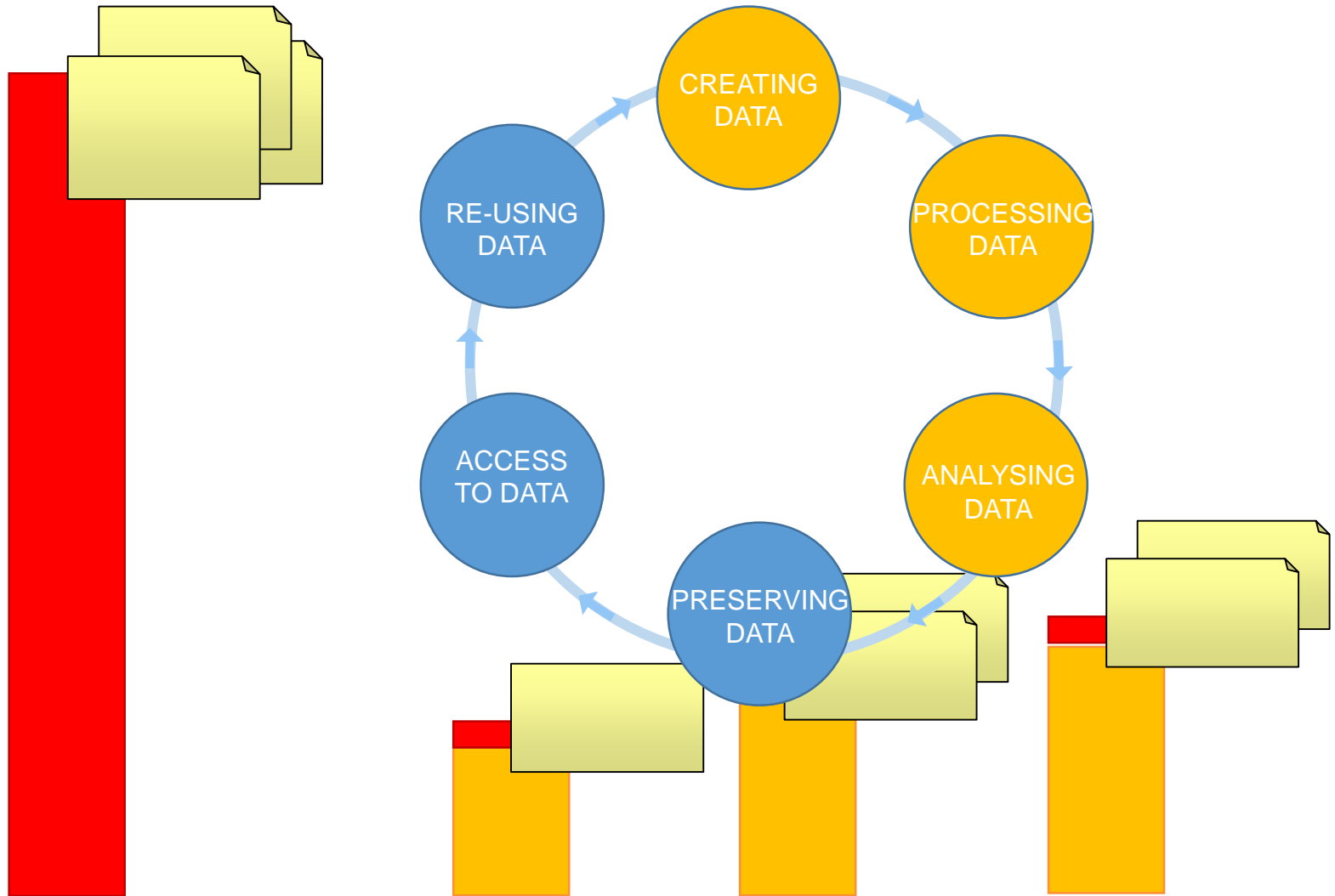
From blank page to electronic labbook

turning the University wiki into an Electronic Lab Notebook

Eilidh Troup and Tomasz Zieliński







Issues with commercial Electronic Lab Notebooks

- expensive \approx £50- £ 100 per user per year
- long term sustainability
- exit strategy





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Created by Samuel Fuller, last modified by Research Data Management SynthSys on Sep 20, 2017

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For more specific topic for getting started, go to the **Quick Start Guide**.

Alternatively, skip straight to **My new wiki** section, for shorter version of key guidance to get you up and running quickly!

Please use the **Feedback** section to leave your comments or alternatively you can add any suggestions you may have to the **Wish List** page!

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Navigation Map

*Lab Notebooks	Health & Safety	Lab Equipment	Lab meetings
Members	Paper Writing	Photos	Protocols
Road Map	Strains	Support	Task report

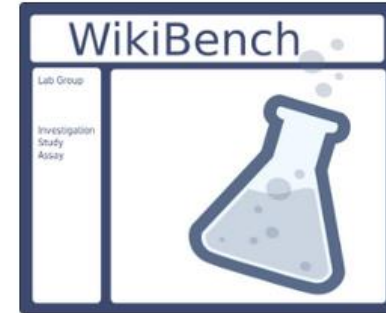
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To read first the how-to materials: [How-to articles](#)

Today

Add Event

Nov 6 — 12, 2017

	Mon 6	Tue 7	Wed 8	Thu 9	Fri 10	Sat 11	Sun 12
All day							
8am		group meeting					
9am			Topcount				
10am				SynthSys Open	SBS Research Committe		
11am							



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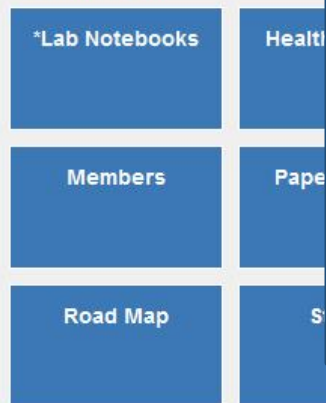


Pages

WikiBench Home

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Navigation Map



A smaller version of the Navigation Map grid, showing the same layout of blue tiles with white text. The tiles include: *Lab Notebooks, Health & Safety, Lab Equipment, Lab meetings, Members, Paper Writing, Photos, Protocols, Road Map, Strains, Support, and Task report.

Navigation Map



The main Navigation Map grid consists of 12 blue tiles arranged in a 3x4 grid. The tiles contain the following text:

- Row 1: *Lab Notebooks, Health & Safety, Lab Equipment, Lab meetings
- Row 2: Members, Paper Writing, Photos, Protocols
- Row 3: Road Map, Strains, Support, Task report

 The tiles for '*Lab Notebooks' and 'Protocols' are circled in red.

Add new front page link

Please remember
To read first the how-to materials: [How-to articles](#)

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11am							

lab-notebook meeting-notes protocol
 screening shared-links
show-on-home study
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Blog Posts

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- Health & Safety
- Lab Equipment
- Lab meetings
- Mem...
- Pages...
- Protocols
- Read...
- task report

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Today

Add Event

Nov 6 — 12, 2017

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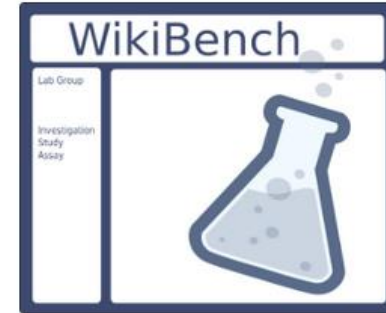
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2017-10-15 LDD LD LDD LD

Created by Tomasz Zielinski, last modified about 2 hours ago

↑ Light patterns

2017-10-15 LDD LD LDD LD in true colors ⇒

Light patterns with long and short darkness periods.



- prepare cabinets
- transfer seedlings
- spray with luciferase
- start recording
- transfer files
- extract tiemseries
- analyse with BioDare

Growth conditions

Seedlings were grown on plates containing 1× MS salts with 0.8% to 1% agar and, where indicated, supplemented with 3% (w/v) Suc. In all cases, media pH was corrected to pH 5.8. Unless otherwise stated, seeds were surface-sterilized before being stratified in the dark at 4°C for 48 h prior to transfer to the growth chamber. Plants were grown in Sanyo MLR-350 growth chambers at a constant temperature (20°C). The light level during photoperiods or **constant light was 50 μmol m⁻² s⁻¹**.

Small fungi contamination noted on some seedlings.

Experimental conditions

2 WT (Col, Ws) and 5 clock mutants, in biological duplicates, from three conditions: Diurnal cycle (12L/12D), Extended night (DD), Extended light (LL), harvest every 2 hours. Numbers are in transcript copy per cell, obtained assuming 1 g FW contains 25000000 cells.

Design

and its homologous LHY (LATE ELONGATED HYPOCOTYL) gene. TOC1 encodes a member of the PSEUDORESPONSE REGULATOR (PRR) family, including PRR9, PRR7, PRR5, PRR3, and PRR1/TOC1. The PRR genes other than TOC1 (or PRR1) also appear to be crucial for certain circadian-associated events. **To clarify missing genetic linkages amongst these PRR genes, here we constructed a toc1 prr5 double**

Rationale

- In *Arabidopsis thaliana*, many circadian clock-associated genes have been identified.
- the evening-expressed **TOC1** (TIMING OF CAB EXPRESSION 1) gene plays a role by forming a transcriptional feedback core loop
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Assay

More information on the ISA model here:
[ISA \(Investigation - Study - Assay\)](#).





2017-10-15 LDD LD LDD LD

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2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3

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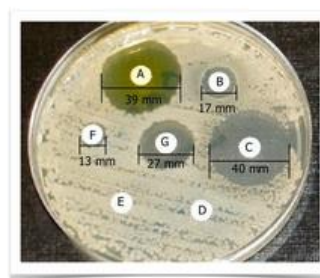
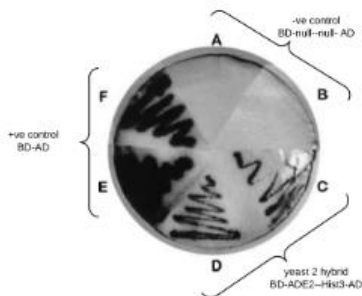
← 2017-09-10 Assay Antibiotics resistance

↑ Temperature effects

2017-11-16 Assay Termal shock ⇒

Description

Yeast 2 hybrid study to find out if ADE2 and Hist3 interact. Two different assays were used the classic Zielinski 2004 and the new Troup 2016



Label	antibiotic	size (mm)
A	Kanamycin	39
B	Netilmicin	17
C	Streptomycin	40
D	nil (control)	0
E	Meropenem	0
F	Cefalexin	13
G	Teicoplanin	27

Protocol

Protocol used: Yeast 2 hybrid protocol

Reagents

- Liquid YPD media
- Liquid dropout media (Glu ura-, Glu ura-his-)
- Dropout plates (Glu ura-, Glu ura-his-)
- X-Gal plates (Glu ura-his- X-Gal, Gal/Raf ura-his- X-Gal)
- Yeast strain EGY48 or a related strain
- The URA3 2 μ lacZ repression assay reporter plasmid pJK101

2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3

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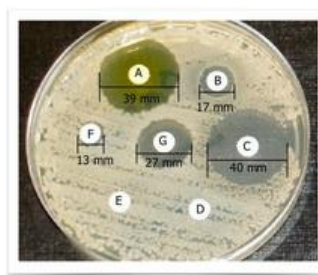
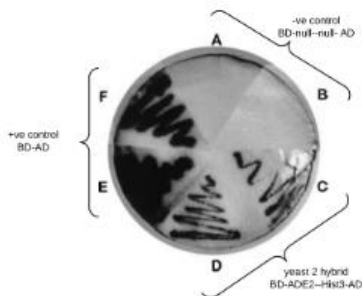
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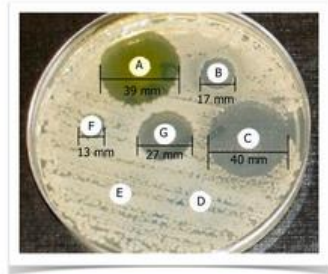
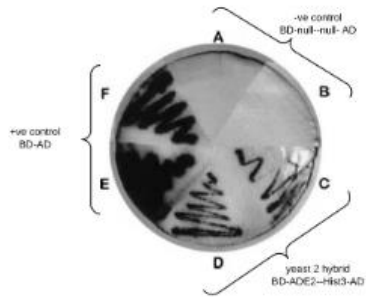
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UoE Scrollbar

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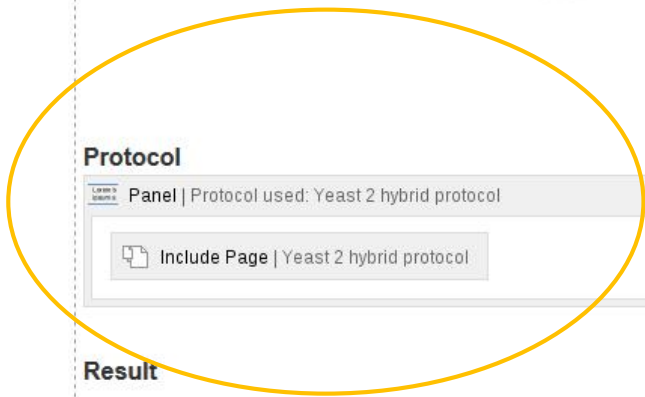
Protocol

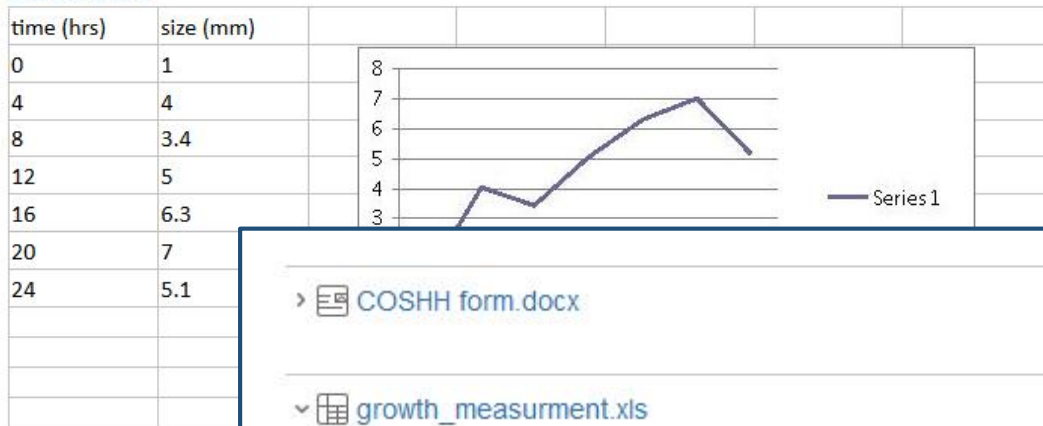
Panel | Protocol used: Yeast 2 hybrid protocol

Include Page | Yeast 2 hybrid protocol

Result

The yeast 2 hybrid grew, showing that there is an interaction between ADE2 and Hist3.





> COSHH form.docx

> growth_measureme

Labels

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Version history

Version 4 (current)

Version 3

Version 2

Version 1

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Aug 30, 2017 by Eilidh Troup

> growth_measurement.xls

yesterday at 04:10 PM by Eilidh Troup

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Modified by Eilidh Troup

yesterday at 04:10 PM

Version 3

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Aug 30, 2017

Version 2

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May 25, 2017

Version 1

Created by Eilidh Troup

May 25, 2017

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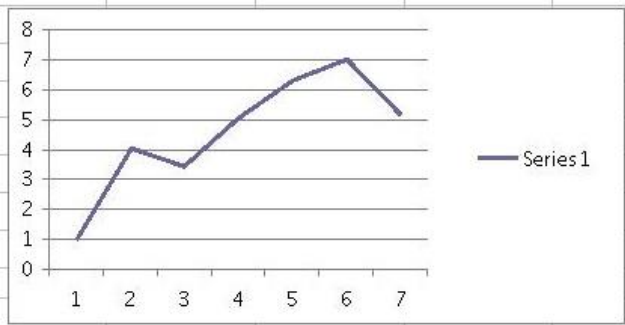
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12	5
16	6.3
20	7
24	5.1



- > COSHH form...
- growth_meas...

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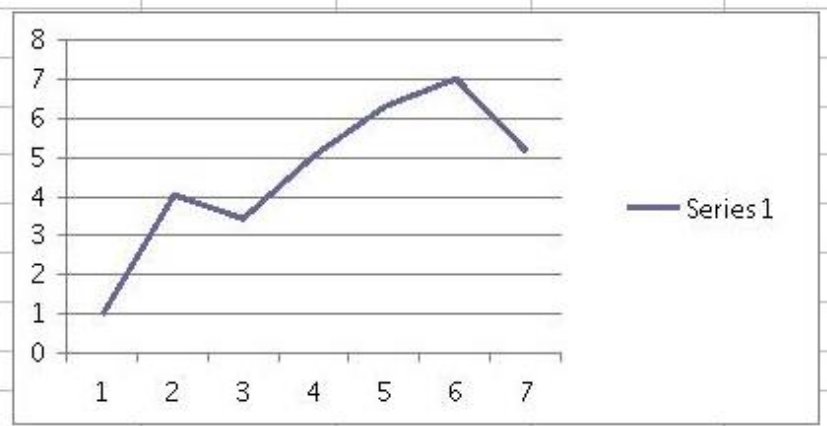
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- Version 4 (cu
- Version 3
- Version 2
- Version 1

Preview

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time (hrs)	size (mm)
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<input type="checkbox"/> v. 15	Nov 16, 2017 14:56	Tomasz Zielinski		Restore · Delete
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<input type="checkbox"/> v. 13	Nov 16, 2017 14:53	Tomasz Zielinski		Restore · Delete
<input type="checkbox"/> v. 12	Nov 16, 2017 14:51	Tomasz Zielinski		Restore · Delete
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<input type="checkbox"/> v. 10	Nov 16, 2017 14:36	Eilidh Troup		Restore · Delete
<input type="checkbox"/> v. 9	Sep 28, 2017 16:38	Eilidh Troup		Restore · Delete
<input type="checkbox"/> v. 8	Sep 13, 2017 15:02	Eilidh Troup		Restore · Delete
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<input type="checkbox"/> v. 1	Sep 13, 2017 11:25	Eilidh Troup		Restore · Delete

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Key

- This line was added.
- ~~This line was removed.~~
- Formatting was changed.

Light patterns with long and short darkness periods.



- prepare cabinets
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Rationale

- Clock genes impact flowering time
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Assay

More information on the ISA model here:
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2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3

Created by Eilidh Troup, last modified by Tomasz Zielinski about 2 hours ago

2017-09-10 Assay Antibiotics resistance

Temperature effects

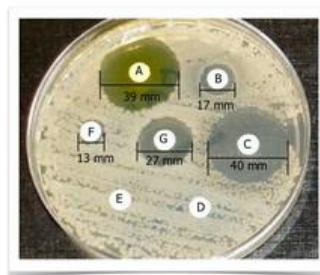
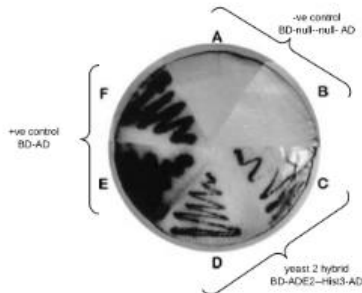
2017-11-16 Assay Thermal shock

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- The URA3 2 μ lacZ repression assay reporter plasmid pJK101
- HIS3 2 μ bait plasmid expressing your bait protein fused to LexA



Temperature effects

Created by Eilidh Troup, last modified by Tomasz Zielinski just a moment ago

[↑ Environmental influences on the Arabidopsis clock](#)

Purpose: TiMet clock gene expression profiles, baseline comparison across photoperiods in Col wild-type plants, under 6, 8, 12 and 18 h photoperiod. These data define the response of the clock genes under different photoperiods, where other analysis in the TiMet project studied proteome and metabolite levels. Absolute expression levels were compared, as RNA copies per gFW or per cell.

Description: Literature data from: 'Photoperiod-dependent changes in the phase of core clock transcripts and global transcriptional outputs at dawn and dusk in Arabidopsis' by: Anna Flis. Col plants were grown in soil under 6, 8, 12 and 18h photoperiod for 21 days, and duplicate samples were harvested at 2 h intervals though a 24 h cycle. qRT-PCR with absolute calibration to spiked-in standards returned RNA copy number per gramme Fresh Weight of rosette tissue. Cell number was separately estimated at 25,000,000 per gFW.

Study

More information on the ISA model here:
[ISA \(Investigation - Study - Assay\)](#).

Assays

Create assay

[2017-09-10 Assay Antibiotics resistance](#)

[2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3](#)

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Temperature effects

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Study

More information on the ISA model here: [ISA model](#) (Investigation - Study - Assay).

Assays

Create assay

2017-09-10 Assay Antibiotics resistance

2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3

2017-11-16 Assay Termal shock

Assays

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Page title

Aim

Please enter the experiment aims and objectives.

Organism

	Name	ID number
Species		
Ecotype		
Gene		

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List your equipment here.

Protocol

Either add a link to your protocol or embed the protocol within this screen using the include page section below:

Panel | Protocol

Include Page | Agar recipe

Note

Remember to change the link above to point to your protocol. You can remove this note afterwards

Risk assesment

Consider the health and safety implications here.

Biohazards

Chemicals

Equipment



Tip

Remember to add labels describing your experiment.



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about 3 hours ago • Tomasz Zielinski
screening
- 2017-11-03 **Heavy metals**
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screening
- 2017-10-17 **Growth hormons**
about 3 hours ago • Tomasz Zielinski
screening
- 2017-10-14 **Stress signals**
about 3 hours ago • Tomasz Zielinski
screening
- 2017-10-14 **Signaling hormones**
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- 2017-10-14 **Carbon sources**
about 3 hours ago • Tomasz Zielinski
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- 2017-11-16 **Nitrogen sources 2**
about 3 hours ago • Tomasz Zielinski
screening
- 2017-11-16 **Nitrogen sources**
about 3 hours ago • Tomasz Zielinski
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Eilidh Troup Sep 27, 2017
Eilidh Group Wiki





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Clock perturbation

Created by Tomasz Zielinski, last modified about 2 hours ago

Tomasz

Screening for environmental changes and drugs effects that disturb the clock the mostly for parameters estimations

- 2017-11-16 Nitrogen sources
- 2017-10-14 Signaling hormones
- 2017-11-16 Nitrogen sources 2
- 2017-10-14 Stress signals
- 2017-10-17 Growth hormons
- 2017-11-03 Heavy metals
- 2017-11-13 Macroloids
- 2017-10-14 Carbon sources

Investigation

More information on the ISA model here:

[ISA \(Investigation - Study - Assay\).](#)

Studies

Create Study

Light patterns

Growth modifiers

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investigation



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Tomasz

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A place to keep track of tasks assigned to you, your investigation notes, and view recently updated pages.

Task List

Description	Due date ▾	Assignee	Task appears on
<input type="checkbox"/> @Tomasz Zielinski Write up findings in lab book 📅 30 Mar 2017	30 Mar 2017	Tomasz Zielinski	2017-03-29 Meeting notes - quick catchup

Task List

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<input type="checkbox"/> @Tomasz Zielinski Write up findings in lab book 📅 30 Mar 2017	30 Mar 2017	Tomasz Zielinski	2017-03-29 Meeting notes - quick catchup
<input type="checkbox"/> @Tomasz Zielinski Analyse micro fluorescence data. 📅 21 Apr 2017	21 Apr 2017	Tomasz Zielinski	2017-03-29 Meeting notes - quick catchup
<input type="checkbox"/> @Tomasz Zielinski Cleanup your desk		Tomasz Zielinski	2017-03-29 Meeting notes - quick catchup

- 2017-10-14 Stress signals
- Light patterns
 - 2017-10-15 LDD LD LDD LD
 - 2017-10-15 LDD LD LDD LD in true colors
 - 2017-10-27 LD LLD LD LDD

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5 minutes ago • updated by Tomasz Zielinski • view change
- [Nature paper accepted!](#)
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- [Road Map](#)
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Investigations

More information on the Investigation, Study, Assay model here: [ISA](#)

Create Investigation

- Clock perturbation
 - Growth modifiers
 - 2017-10-14 Carbon sources
 - 2017-10-14 Signaling hormones
 - 2017-10-14 Stress signals
 - Light patterns
 - 2017-10-15 LDD LD LDD LD
 - 2017-10-15 LDD LD LDD LD i
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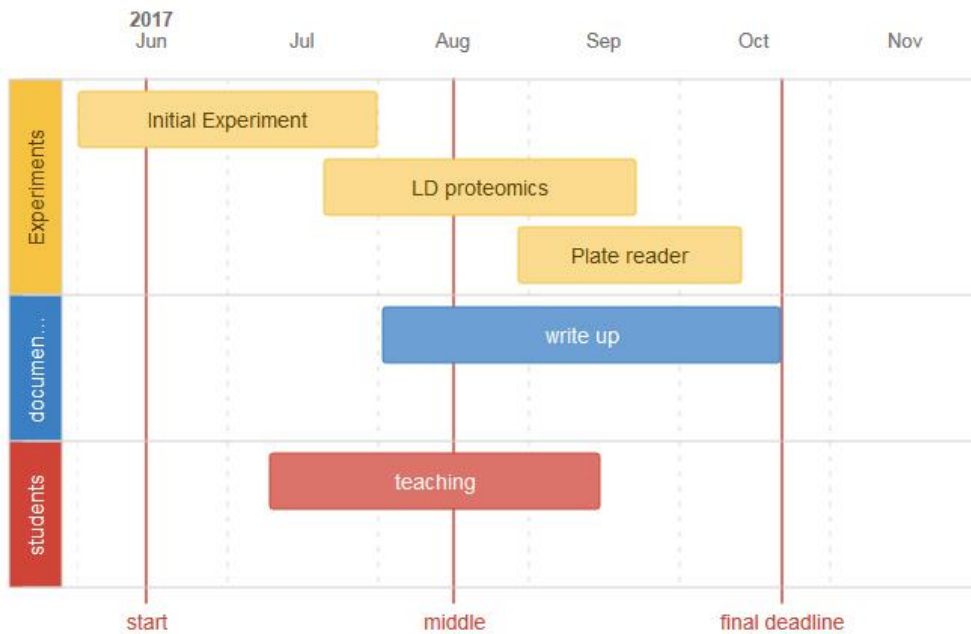
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Road Map

Created by Eilidh Troup, last modified by Tomasz Zielinski just a moment ago



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EGW-admin														
EGW-users														
confluence-users														

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No users currently have individual access rights to this space.

Edit Permissions

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	View	Delete Own	Add	Delete	Add	Delete	Add	Delete	Add	Delete	Add/Delete	Delete	Export	Admin
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Space Tools



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Next >>

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Generates a PDF file of selected pages based on options that you choose from below.

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WikiBench Home

*Lab Notebooks

Example Notebook

Environmental influences on the Arabidopsis clock

Temperature effects

2017-09-10 Assay Antibiotics resistance

2017-09-13 Assay Yeast 2 hybrid ADE2-Hist3

2017-11-16 Assay Thermal shock

GAL1 Investigation

Growth study

2017-10-11 Imaging Assay

2017-11-16 Tabs example

test investigation

Running task

Exporting Space as PDF - In Progress

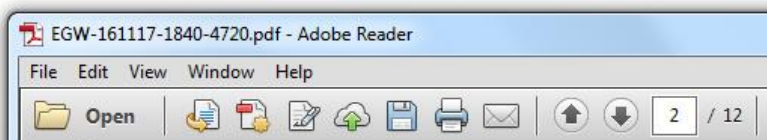
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Time Elapsed: 3 seconds

Time Remaining: Unknown (estimated)

Completion: 100% complete

Finished PDF space export. Download [here](#).



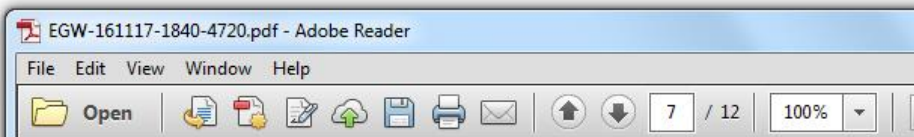
WikiBench Home

Navigation Map

*Lab Notebooks	Health & Safety	Lab Equipment
Members	Paper Writing	Photos
Road Map	Strains	Support

Add new front page link

Please remember
To read first the how-to materials: [How-to articles](#)



Protocol used: Yeast 2 hybrid protocol

Reagents

- Liquid YPD media
- Liquid dropout media (Glu ura-, Glu ura-his-)
- Dropout plates (Glu ura-, Glu ura-his-)
- X-Gal plates (Glu ura-his- X-Gal, Gal/Raf ura-his- X-Gal)
- Yeast strain EGY48 or a related strain
- The URA3 2 μ lacZ repression assay reporter plasmid pJK101
- HIS3 2 μ bait plasmid expressing your bait protein fused to LexA
- Two HIS3 2 μ control bait plasmids: one that encodes LexA fused to a transcriptionally inert protein, like Bicoid in pRFHM1, or LexA-Max (Zervos et al., 1993), and one that encodes no LexA, for example pRFHM0.

Method

1. Transform EGY48 with pJK101 and select transformants on Glu ura- plates.
2. Combine three colonies from these plates and transform them with the HIS3 bait plasmid (and the HIS3 control plasmids). Select transformants on Glu ura-his plates.
3. Pick four individual colonies from each transformation and streak a patch of them onto Glu ura-his- and Gal/Raf ura-his- plates containing X-Gal. Incubate at 30°C.
4. Examine the X-Gal plates after 1, 2, and 3 days. Yeast lacking LexA will begin to turn blue on the Gal/Raf plates after one day and will appear light blue on the glucose plates after two or more days. Yeast containing a bait that enters the nucleus and binds operators will turn blue more slowly than the yeast lacking LexA.
5. Baits that repress transcription of lacZ in pJK101 by 2-fold or less may not cause a visible reduction in blue on X-Gal plates. If no repression is observed on the X-Gal plates, perform the more sensitive liquid β -galactosidase assays with transformants from step 2. Grow the transformants in 5 ml Glu ura-his- and Gal/Raf ura-his- liquid media, or on Glu ura-his- and Gal/Raf ura-his- plates for 2 days, before doing β -galactosidase assays (Miller, 1972).

Result

The yeast 2 hybrid grew, showing that there is an interaction between ADE2 and Hist3.

Research Data Management SynthSys (f1sysrdm) Home
Created by Samuel Fuller, last modified by Research Data Management SynthSys on Sep 20, 2017

Welcome to your new Wiki

For general help and guidance, link straight to the main **Wiki: Help and Guidance** wiki!
For more specific topic for getting started, go to the **Quick Start Guide**.

Alternatively, skip straight to **My new wiki** section, for shorter version of key guidance to get you up and running quickly!
Please use the **Feedback** section to leave your comments or alternatively you can add any suggestions you may have.

Navigation Map

- Handbooks
- Health & Safety
- Lab Equipment
- Lab meetings
- Members
- Paper Writing
- Photos
- Protocols
- Road Map
- Strains
- Support
- Task report

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Created by Gavin Anderson, last modified by Tomasz Zielinski about 2 hours ago

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Blog Posts

- Nature paper accepted! created by Eilidh Troup Sep 27, 2017 Eilidh Group Wiki
- Our first proteomics created by Eilidh Troup Jun 06, 2017 Eilidh Group Wiki
- Bob joins the lab created by Eilidh Troup May 23, 2017 Eilidh Group Wiki
- New parts in stock created by Eilidh Troup May 22, 2017 Eilidh Group Wiki

Calendar: Nov 6 — 12, 2017

	Mon 6	Tue 7	Wed 8	Thu 9	Fri 10	Sat 11	Sun 12
All day							
8am		group meeting					
9am			Topcount				
10am				SynthSys Open	SBS Research Committe		
11am							

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