



ELEGANCE: ELECTRONIC LAB NOTEBOOK ON CLOUD— DIGITIZE YOUR EXPERIMENTAL DESIGNS AND RESULTS INTO WISDOM FROM DISCOVERY TO PUBLICATION

電子實驗記錄本之運用與維護



黃智偉 2017/10/25



LAB OF System Biology & Network Biology

中央研究院資訊科學研究所

@iis, Academia Sinica, TAIWAN

系統生物學與網路生物學實驗室

OUTLINE

- ✓ Motivations
- ✓ Introduction
- ✓ Interface
- ✓ Use ELN
 - ✓ Lab member
 - ✓ Project leader
 - ✓ Site manager
- ✓ How to install?
- ✓ ELN service control
- ✓ Future Work



MOTIVATIONS (1/2)

實驗室所產生的各類資料

儲存到雲端或個人電腦中

可在各種隨身設備上讀取修改



All information
generated by Lab
members



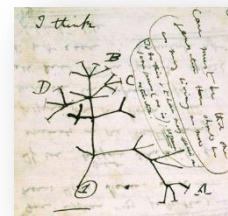
Migrate ELN to
Cloud as multi-
lab platform



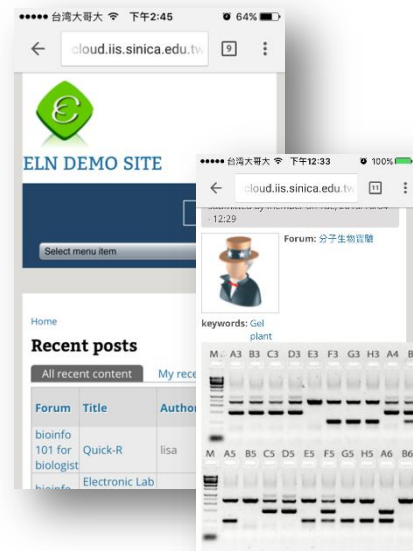
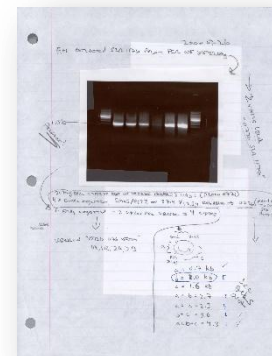
Re-editing and
Mining by Various
Devices

MOTIVATIONS (2/2)

From Charles Darwin's "B" Notebook, 1837.



- Easy to install with smooth learning curves
- Open Source
- Digitalize
- Searching completely, Sharing for multiuser
- Audit trials and change logs with CFR21 part 11
- User friendly, easy control
- Security, Password administration
- Knowledge reconstruction
- Repository for ideas and knowledge
- All contents in one Portal



INTRODUCTION

INTRODUCTION (1/4)

Using web page to digitalize and show your thoughts & data



ELN DEMO SITE

Logout

Forum | Calendar | Create Forum Post | Create event | Photo Gallery

Home

Search

Forum

Forum	Topics	Posts	Last post
Lab Bulletins			
一般公告，常用資料、表單、安全資料、型錄等			
實驗室安全	0	0	n/a
Protocols			
分子生物實驗	0	0	n/a
細胞培養	0	0	n/a
Research Projects			
有關於研究計畫的工、紀錄、資料檔案、討論			
My Project			
My Project 2			
Co-project 1			

LANGUAGES

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

Property Supplies

um (Mobile Friendly)

Quick-R

Clone this forum post

Submitted by: [User Name] (2016/08/08 - 19:27)

Forum: [Forum Name] (101 for biologist)

Keywords: R code

URL: [URL]

About Quick-R

Contributions Among Auto Characteristics

Who Survived the Titanic?

Quick-R is an elegant and comprehensive statistical and graphical programming language. Unfortunately, it was not based on a solid learning curve. I created this website for both current & future, and experienced users of other statistical packages (e.g., SAS, SPSS, Stata) who intend that to transition to R. [Link]

INTRODUCTION (2/4)

PLN vs. ELN

	Paper Lab notebook (PLN)	ELN	
Use	Easy	 User-friendly interface	
Read	Handwriting can be problematic	 Easy	
Annotation	Possible but space limitations	 Easy	
Modify	Difficult	 Easy	
Links within the pages	Unavailable	 Just inserting hyperlinks	
Search	Reading page by page	 Easy	
Sort	Unavailable	 Sort by date, title, author...	
Share	Need photocopying or scanning	 Easy	
Safety	Low control	 Specific user permission	
Accessibility	Specific place	 Everywhere through internet	
Long-term storage	Difficult	 No problem	
Pages numbered	Yes	 With Digital Fingerprint	

INTRODUCTION (3/4)

Basic Structure of ELN



open source

Drupal

**PHP,
MySQL,
Apache**

INTRODUCTION (4/4)

Essential Functions in ELN



Friendly
Installation/ non
installation



Content generator



PDF printout



User management



Search



Web Access worldwide



Calendar/ Event



Webpage clip



Web share



Succinct control
panel



Image gallery



Backup /restore



Personalization



Digital signature



Security



Print



Data Exchange

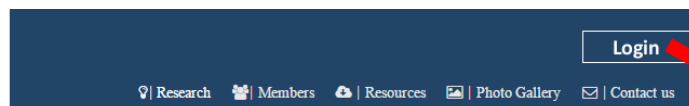
INTERFACE

ELN INTERFACE (1/4)

One Installation, Two Sites for Public and Private



External Site for public
Access/ Lab website



Home

Research

Our mission

Using IT innovations to increase the quality of life (QoL)

Introduction on what we have done and what we want to do

At recent years, we put focuses on following important issues:

(1) **Network analysis of human protein interactions for Tumorigenesis and infectious diseases in the approach of systems biology**

We have implemented a statistical model into our protein interaction database for validation of two-hybrid assays of *Helicobacter pylori*, and prediction of putative protein interactions not yet discovered experimentally. By this approach, we can compare the interacting network of various strains with different virulence to decipher the secret between hosts and pathogens (<http://dpi.nhri.org.tw/hp/>, Bioinformatics 2005). Using the more sophisticated statistical method with expression profile, we integrated a database named as flydpi for the interactome of *Drosophila melanogaster* (<http://flydpi.nhri.org.tw>, BMC Bioinfo, 2006). And we also constructed a topological analyzer for complex network named as Hubba (NAR, 2008, <http://hubba.iis.sinica.edu.tw>). Objectives of our work are to improve our understanding of the puzzle during development stage, carcinogenesis and infectious mechanism, and to furthermore introduce a new paradigm for the diagnosis and treatment of human disease to revolutionize current medical services delivered.

(2) **Developing value-added databases and web applications for biomedical research communities**

LANGUAGES

English

NEWS

news test

more



Internal Site for private Access

User Profile

Log in Request new password

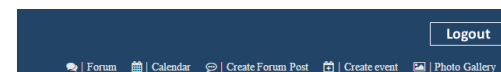
Username *

Enter your Electronic Laboratory Notebook username.

Password *

Enter the password that accompanies your username.

Log in



Home

Recent posts

All recent content My recent content

Forum	Title	Author	Replies	Last Post
My Project 1	openBIS ELN-LIMS: an open-source database for academic laboratories new	yama	2 new	2015-11-09 15:29
My Project 2	My project schedule	admin		2015-11-04 14:39
My Project 1	The draft genome of the large yellow croaker reveals well-developed innate immunity	member		2015-11-04 14:29

Search

LANGUAGES

English

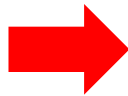
USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Online Help
- Log out

ELN INTERFACE (2/4)

Typical Interface

Record



**ELECTRONIC
LABORATORY
NOTEBOOK**

Logout

Forum | Calendar | Create Forum Post | Create event | Photo Gallery

Home » Forum » Research Projects » My Project 1

The draft genome of the large yellow croaker reveals well-developed innate immunity

View Edit

Submitted by member on Wed, 2015/11/04 - 14:26

**Forum: My Project 1**

keywords: croaker
innate

The large yellow croaker, *Larimichthys crocea*, is one of the most economically important marine fish species endemic to China. Its wild stocks have severely suffered from overfishing, and the aquacultured species are vulnerable to various marine pathogens. Here we report the creation of a draft genome of a wild large yellow croaker using a whole-genome sequencing strategy. We estimate the genome size to be 728 Mb with 19,362 protein-coding genes. Phylogenetic analysis shows that the stickleback is most closely related to the large yellow croaker. Rapidly evolving genes under positive selection are significantly enriched in pathways related to innate immunity. We also confirm the existence of several genes and identify the expansion of gene families that are important for innate immunity. Our results may reflect a well-developed innate immune system in the large yellow croaker, which could aid in the development of wild resource preservation and mariculture strategies.

a Gene families
Expansion/contraction
+562/-7,619 Medaka
+593/-4,699 Croaker
+665/-3,172 Stickleback
+119/-3,510 Pufferfish
+7/-2,902 Torafugu
+388/-8,623 Cod
+1,168/-5,815 Zebrafish
300 250 200 150 100 50 0 Mya

b
Stickleback Croaker
Torafugu Pufferfish
1,013 1,421 1,236 878
957 879 648 583
612 3,461 750
703 1,489 987

 Search**LANGUAGES**

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

TAGS TO SHOW

123 (2) innate (1) croaker (1) OpenBIS (1) L (1)

THEME

Premium (Mobile)

PUBLIC INFORMATION

- News
- Home
- Research
- Members
- Resources
- Contact us

Search

Switch language

User Profile

Lab Property
and Supplies

Tag

Switch theme

ELN INTERFACE (3/4)

Easy to editing content and appending table, image, file, YouTube video...

Home

Create Forum Post

Title *

Language
Language neutral

Forum *
Lab Bulletins

keywords *

A comma-separated list of terms describing this content. Example: funny, bungee jumping, "Company, Inc.".

Body (Edit summary)

123 (2) innate (1) croker (1) OpenBIS (1) LIMS (1)

THEME
Premium (Mobile)

PUBLIC INFORMATION

Powered By LAB Of
System Biology & Network Biology
系統生物學與網路生物學實驗室

Drag and drop your images or files

Filename Size Status

Drag files here.

Using runtime: html5

+ Add files 0 b 0%

Create thumbnails

☐ Small (90x90)

☐ Medium (120x120)

☐ Large (180x180)

Upload

ELN INTERFACE (4/4)

More simple and clear layout on mobile device



USE ELN

ROLE INTRODUCTION

Guest

- Only can view public content

Lab member

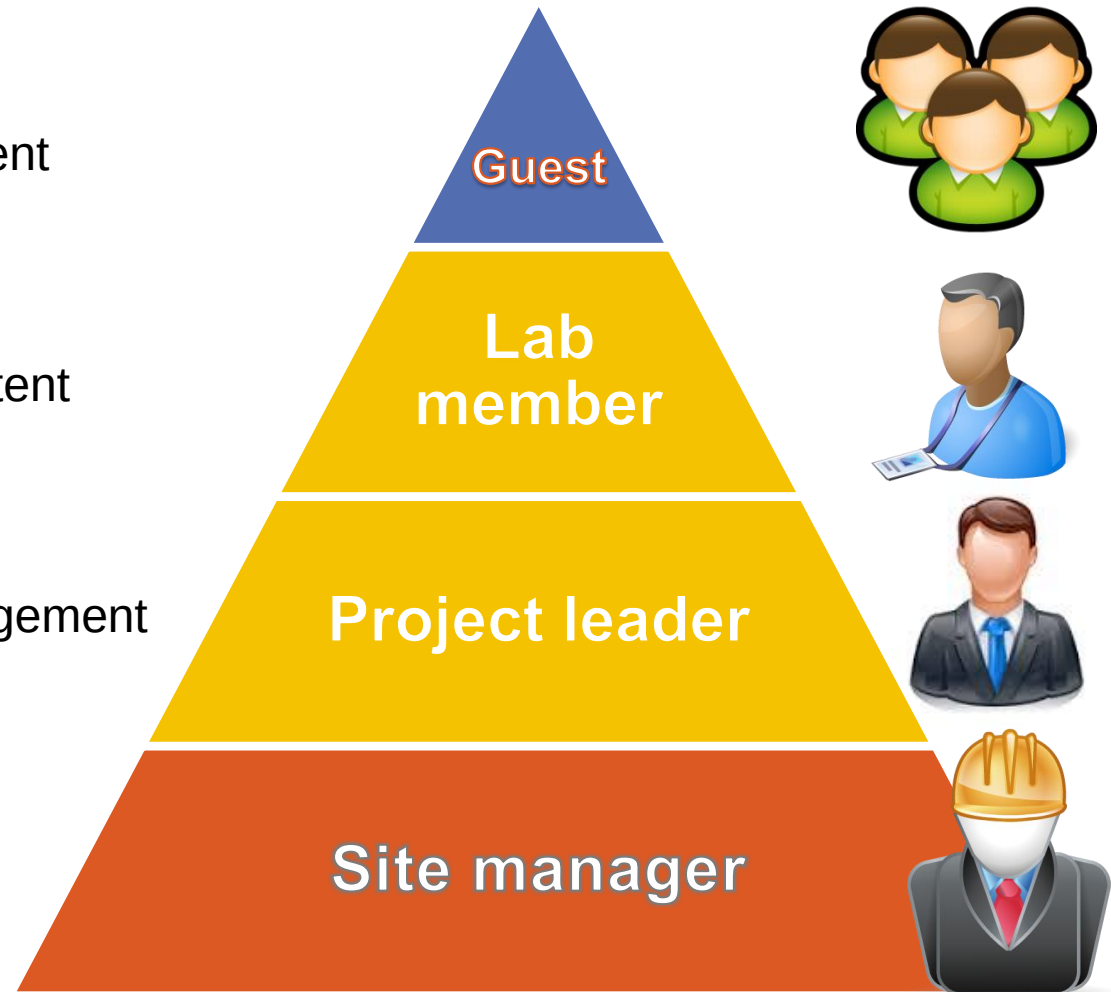
- View public content
- View and post private content

Project leader

- Functions of Lab member
- Content permission management

Site manager

- User, content and theme management



LAB MEMBER CAN DO..

- **Search**
- **Personalization**
- **Post and reply forum topics**
- **Share content**
 - Convert to printer-friendly version or PDF file
 - Email (hyperlink or full content)
- **See all reversions of content**
- **Calendar**
- **File management**
- **Bookmark management**
- **Photo galleries management**
- **Make meeting invitation to other members**
- **View properties and supplies in lab**



THE FUNCTIONS FOR LAB MEMBER

- POST FORUM



1. Click Forum, you can see the forums topics
2. Click Create Forum Post, you can add new content
3. Input Title, Forum name, Keywords and Body

ELN DEMO SITE

1 2 3

Logout

Home

Forum

Forum	Topics	Posts	Last post
Lab Bulletins			
一般公告，常用資料、表單、安全資料、型錄等			
實驗室安全	0	0	n/a
Protocols			
分子生物實驗	0	0	n/a
細胞培養	0	0	n/a
Research Projects			
有關於研究計畫的工作紀錄、資料檔案、討論等			
My Project 1	0	0	n/a
My Project 2	0	0	n/a
Co-project 1	0	0	n/a

LANGUAGES

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

THEME

Premium (Mobile Friendly)

Create Forum Post

Title *

Forum *

-My Project 1

keywords *

A comma-separated list of terms describing this content. Example: funny, bungee jumping, "Company, Inc."

Body (Edit summary)

格式 字型 大小 樣式 A A

THE FUNCTIONS FOR LAB MEMBER

- SEARCH & PERSONALIZATION



1. Search content, support auto-complete
2. Personalization, you can change theme here

ELN DEMO SITE

Home | Forum | Calendar | Create Forum Post | Photo Gallery

Logout

1

Search

Forum

Forum	Topics	Posts	Last post
Lab Bulletins 一般公告，常用資料、表單、安全資料、型錄等			
實驗室安全	0	0	n/a
Protocols			
分子生物實驗	0	0	n/a
細胞培養	0	0	n/a
Research Projects 有關於研究計畫的工作紀錄、資料檔案、討論等			
My Project 1	0	0	n/a
My Project 2	0	0	n/a
Co-project 1	0	0	n/a

LANGUAGES

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

2

Premium (Mobile Friendly)

Bartle

Dark Elegant

Garland

Impact (Mobile Friendly)

LiteJazz

Marinelli

News Flash

Premium (Mobile Friendly)

Splendio

Tapestry



ELN Demo Site

Home | Forum | Calendar | Create Forum Post | Create event | Photo Gallery

Home

Forum

Forum	Topics	Posts	Last post
Lab Bulletins 一般公告，常用資料、表單、安全資料、型錄等			
實驗室安全	0	0	n/a
Protocols			
分子生物實驗	0	0	n/a
細胞培養	0	0	n/a
Research Projects 有關於研究計畫的工作紀錄、資料檔案、討論等			
My Project 1	0	0	n/a
My Project 2	0	0	n/a
Co-project 1	0	0	n/a

LANGUAGES

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

THEME

Impact (Mobile Friendly)

THE FUNCTIONS FOR LAB MEMBER

- PROFILE EDIT



1. Click User Profile, you can see the user information
2. Click Edit, edit your account information

Home

member

View Edit My Bookmarks Draft Scheduled Track File browser

▼ User Information

First, Last Name: member
Affiliation: iis

History

Member for
1 day 23 hours

[Send email to this user](#)



Search

LA

Eng

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies



member

View **Edit** My Bookmarks Draft Scheduled Track File browser

Current password

Enter your current password to change the *E-mail address* or *Password*. Request new password.

E-mail address *

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

Password

Confirm password

To change the current user password, enter the new password in both fields.

Theme configuration

▼ User Information

First, Last Name *

Affiliation *

Tel

THE FUNCTIONS FOR LAB MEMBER

- FILE MANAGEMENT



1. Click File browser, management your files
2. Click Upload, show the upload window
3. Click Add files or just Drag the files

File name	Size	Width	Height	Date
xia_zai_.jpg	2.46 KB	120	144	2016-07-15 03:28
install_01.png	50.14 KB	862	713	2016-07-15 05:01
install_02.png	54.83 KB	852	766	2016-07-15 05:01
install_03.png	91.02 KB	1040	823	2016-07-15 05:01

4 files using 198.45 KB of unlimited quota



Filename	Size	Status
Drag files here.		

+ Add files 0 b 0%

Create thumbnails

- ☐ Small (90x90)
- ☐ Medium (120x120)
- ☐ Large (180x180)

Upload

THE FUNCTIONS FOR LAB MEMBER

- INSERT IMAGE (1/2)



1. Click this icon, you can insert image file
2. Go to your file browser
3. Upload the image file
4. Insert the image file

Create Forum Post

Title *

Forum *

keywords *

Body

1



影像屬性

影像資訊 連結 進階

2

URL

3

替代文字

寬度

高度

框線

HSpace

VSpace

對齊方式

確定 取消



3

4

Upload Thumbnails Delete Resize Directory Insert file

Navigation

File name

THE FUNCTIONS FOR LAB MEMBER

- INSERT IMAGE (2/2)



5. Adjust the width and height of the image
6. Insert image Success



Create Forum Post

Title *

Forum *

keywords *

A comma-separated list of terms describing this content. Example: funny, bungee jumping, "Company, Inc."

Body (Edit summary)

標準 6 大小 樣式



THE FUNCTIONS FOR LAB MEMBER

- INSERT FILE/VIDEO OR HYPERLINK



1. Click this icon, you can make text or any file to hyperlink
2. Make text to hyperlink, input URL of the text
3. Make text to hyperlink for download the file, go to your file browser
4. Upload the file
5. Insert the file to hyperlink

Create Forum Post

Title *

Forum *

keywords *

Body (Edit summary)

link



連結

連結資訊 目標 進階

連結類型

網址

URL

伺服器

確定 取消

You
Tube

vimeo



Upload Thumbnails Delete Resize Directory Insert file

Navigation

File name

THE FUNCTIONS FOR LAB MEMBER

- CLONE POST & ADD COMMENT



1. Clone all the content of this forum post
2. Add comment about this forum post
3. Input Subject and Comment for discussion with other members

Test

1

View Edit Revision operations

Clone this forum post

Submitted by member on Fri, 2016/07/15 - 04:05

Forum: My Project 1

keywords: test post

Electronic Lab Notebook Webinar Series

The [Electronic Lab Notebook](#) (ELN) is the scientific community's fastest growing investment and application of choice to facilitate knowledge management, streamline processes and improve collaboration.

With an ELN you can cut documentation time in half, reduce cycle times by 50%, and lower costs by 25%. Accelrys has a range of ELNs to meet the full spectrum of needs of scientific organizations. [Learn more](#) about improving lab-to-market operations by moving from paper to electronic workflow and process documentation.

Webinars will continue to be added to this series, please check back often.

Upcoming Webinars

Date	Title and Speaker	
June 23 8:00 AM	What's New with BIOVIA Notebook 6.0 Presented by Mats Kihlen, BIOVIA Notebook Product Manager	Register Now

2

Add new comment



3

Subject

Comment *

Original Copy Paste Undo Redo Bold Italic Underline Strikethrough Link Unlink Quote Unquote

Format Font Size Style

THE FUNCTIONS FOR LAB MEMBER

- SHARE & BOOKMARK CONTENT



1. Print, Email, or Convert this post to pdf
2. Add this post to your bookmark
3. Go to your bookmark management page
4. Re-order or create folder for you bookmarks

Test post

View Edit Revision operations

- Clone this forum post

Submitted by member on Fri, 2016/07/15 - 04:05



keywords: test post

Electronic Lab Notebook Webinar Series

The **Electronic Lab Notebook (ELN)** is the scientific community's fastest growing investment and application of choice to facilitate knowledge management, streamline processes and improve collaboration.

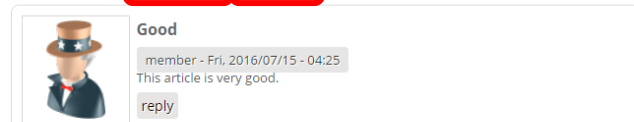
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Upcoming Webinars

Date	Title and Speaker	
June 23 8:00 AM - 9:00 PM	Webinar: Accelerating Lab-to-Market Operations with ELN 5.0 Speaker: John Doe, ELN Product Manager	Register Now

Date: 2016-07-15 04:15
Add new comment



Good

member - Fri, 2016/07/15 - 04:25
This article is very good.

reply

LANGUAGES

English

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Gallery
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

TAGS TO SHOW

test post (1)

THEME

Premium (Mobile Friendly)

PUBLIC INFORMATION

- News
- Home
- Research
- Members
- Resources
- Contact us

Powered By LAB Of
System Biology & Network Biology
系统生物学网络生物学实验室

4

My Bookmarks

- My Template
- Test post

Add folder

THE FUNCTIONS FOR LAB MEMBER

- REVISIONS

1. Click Revision operations, you can see all the versions of this content
2. Click any time you want to see



Test post

View Edit **Revision operations**

- Clone this forum post

Submitted by member on Fri, 2016/07/15 - 04:05



Forum: My Project 1

keywords: test post

Electronic Lab Notebook Webinar Series

The [Electronic Lab Notebook](#) (ELN) is the scientific community's fastest growing investment and application of choice to facilitate knowledge management, streamline processes and improve collaboration.

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Upcoming Webinars

Date	Title and Speaker	
June 23 8:00 AM - 9:00 PT	What's New with BIOVIA Notebook 6.0 Presented by Mats Kihlen, BIOVIA Notebook Product Manager	Register Now

Date: 2016-07-15 03:15

Add new comment Bookmark

Revisions for *Test post*

View Edit **Revision operations**

List all revisions View Current

Revision	Terms	Status
Saved 2016-07-15 04:10 by member	test post	current revision (published)
Saved 2016-07-15 04:05 by member	test post	archived
Saved 2016-07-15 04:05 by member	test post	archived

Revision of *Test post* from *Fri, 2016/07/15 - 04:05*

View Edit **Revision operations**

List all revisions **View**

Submitted by member on Fri, 2016/07/15 - 04:05



Forum: My Project 1

keywords: test post

This is test post.

THE FUNCTIONS FOR LAB MEMBER

- CALENDAR



1. Click Calendar, you can see Forum Post and Event
2. Click Create event, add event by your self
3. Input Event Title, Time and Description

The screenshot displays the ELN DEMO SITE interface. At the top, a navigation bar includes links for Forum, Calendar (marked with a red box and '1'), Create Forum Post, Create event (marked with a red box and '2'), and Logout. A red arrow points from the 'Create event' link to the 'Create Event Calendar' form on the right. The form includes fields for Event Title, Date, and Time, and a large text area for Event Description. A red box with the number '3' is placed near the form. The main content area shows a calendar for July 2016. A red box labeled 'Event' points to a calendar entry for 'Clean lab' on July 20. Another red box labeled 'Forum post' points to a calendar entry for 'Test post' on July 15. The right sidebar contains sections for LANGUAGES, USER PROFILE, PROPERTY & SUPPLIES, TAGS TO SHOW, THEME, and PUBLIC INFORMATION.

ELN DEMO SITE

Home » 行事曆

行事曆

Month Week Day Year

July 2016

« Prev Next »

篩選特定類型的記事 (以類型篩選記事) 篩選含有特定詞語の記事 (以關鍵詞篩選記事內容)

- Any - - Any - Apply

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6			
10	11	12	13	14	15 Test post 2016-07-15 03:15	16
17	18	19	20 Clean lab 2016-07-20 09:30 to 11:30	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Forum post

Event

Create Event Calendar

Event Title *

Date *

Select the start and end dates for this event.

☐ Show End Date

Date Time

2016-07-15 09:30

E.g., 2016-07-15 E.g., 09:30

Event Description

Flags

No flags ☐ Bookmark Add this post to your bookmarks

Publish Save as draft

test post (1)

THEME

Premium (Mobile Friendly)

PUBLIC INFORMATION

- News
- Home
- Research

[illegible]

THE FUNCTIONS FOR LAB MEMBER

- MAKE MEETING (1/4) WITH COLLEAGUES

1. Click Meeting, make meeting invitation to other members
2. Input title and body
3. Input Date and Suggestion time for poll



USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- **Meetings**
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

Create Meeting

Title *

Body (Edit summary)

Rich text editor toolbar with various icons for text formatting, alignment, and media insertion.

Select Time

- ☐ Hidden poll
Confidential participation: only you and administrators can see the answers.
- ☐ Participant can only choose one option
By default all options are selectable. This setting limits the choice to one option per participant.
- Limit the number of participants per option**
0
Poll as registration form: As soon as the indicated limit has been reached, the respective option is no longer available. 0 for unlimited
- ☐ Provide a "Maybe" option
Provide a third "Maybe" option in case users may be available.
- ☐ Closed
Check this when you want to close the poll.

Date	Suggestion 1	Suggestion 2
2016 Jul 19 Remove	10:00 - 12:00	14:00 - 16:00
2016 Jul 20 Remove	10:00 - 12:00	14:00 - 16:00
2016 Jul 21 Remove	10:00 - 12:00	14:00 - 16:00

More choices More suggestions Copy and paste first row

THE FUNCTIONS FOR LAB MEMBER

- MAKE MEETING (2/4)



4. Check the time you are available

Lab Meeting

[View](#) [Edit](#)

- [Clone this meeting](#)

Submitted by member on Fri, 2016/07/15 - 21:29

It's time to meeting.

▼ Meeting Time

Select Time:

	July 2016					
	Tue. 19		Wed. 20		Thu. 21	
	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00
0 participants						
member	☐	☐	☐	☐	☐	☐
Totals	0	0	0	0	0	0

[Submit](#)

Add new comment [📎](#) [📧](#) [📷](#) [Bookmark](#)



5. Invite other members by email

Lab Meeting

[View](#) [Edit](#)

- [Clone this meeting](#)

Submitted by member on Fri, 2016/07/15 - 21:29

It's time to meeting.

▼ Meeting Time

Select Time:

	July 2016					
	Tue. 19		Wed. 20		Thu. 21	
	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00
1 participant						
member	✓	✗	✓	✗	✓	✗
Totals	1	0	1	0	1	0

[Add new comment](#) [📎](#) [📧](#) [📷](#) [Bookmark](#)

6. Input the email of members

Send by email

Your email *

Your name

Send to *

[Add user](#) Enter multiple addresses separated by commas and/or different lines.

Type *

Subject *

Page to be sent

Your message *

[Send email](#) [Cancel](#)



7. Another member check the time he is available

Lab Meeting

[View](#) [Edit](#) [Manage display](#) [Track](#)

- [Clone this meeting](#)

Submitted by member on Fri, 2016/07/15 - 21:29

It's time to meeting.

▼ Meeting Time

Select Time:

	July 2016					
	Tue. 19		Wed. 20		Thu. 21	
	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00
2 participants						
member	✓	✗	✓	✗	✓	✗
admin	✓	✓	✓	✓	✗	✗
Totals	2	1	2	1	1	0

[Add new comment](#) [📎](#) [📧](#) [📷](#) [Bookmark](#)

THE FUNCTIONS FOR LAB MEMBER

- MAKE MEETING (3/4)



8. Click Meetings to decide the final meeting time

9. Click the meeting name

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings**
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies



Meetings

Add Meeting

Title	Author	Last Post	Meeting Time
Lab Meeting	member	2016-07-15 21:29	

10. Click Edit

11. Decide the final meeting time

Lab Meeting

View **Edit** Manage display Track

• Clone this meeting

Submitted by member on Fri, 2016/07/15 - 21:29

It's time to meeting.

Meeting Time

Select Time:

	July 2016					
	Tue. 19		Wed. 20		Thu. 21	
2 participants	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00
member	✓	✗	✓	✗	✓	✗
admin	✓	✓	✓	✓	✗	✗
Totals	2	1	2	1	1	0



Final Decision

☒ Show End Date

Date

2016-07-20

E.g., 2016-07-15

Time

10:00

E.g., 22:00

to:

Date

2016-07-20

E.g., 2016-07-15

Time

12:00

E.g., 22:00

Flags

No flags

☐ Bookmark

Add this post to your bookmarks

Save

Unpublish

Delete

Add new comment



Bookmark

THE FUNCTIONS FOR LAB MEMBER

- MAKE MEETING (4/4)



12. Final time will show there

Lab Meeting

[View](#) [Edit](#)

- [Clone this meeting](#)

Submitted by member on Fri, 2016/07/15 - 21:29

It's time to meeting.

Meeting Time

Select Time:

	July 2016					
	Tue. 19		Wed. 20		Thu. 21	
2 participants	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00	10:00 - 12:00	14:00 - 16:00
member	✓		✓	✗	✓	✗
admin	✓		✓	✓	✗	✗
Totals	2		2	1	1	0

Final Decision: 2016-07-20
10:00 to 12:00

[Add new comment](#) [Print](#) [Email](#) [Image](#) [Bookmark](#)

13. You also can see it in the calendar

Month Week Day Year

July 2016 « Prev Next »

篩選特定類型的記事 (以類型篩選記事) 篩選含有特定詞語の記事 (以關鍵詞篩選記事內容)

- Any - - Any - [Apply](#)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
					Test post 2016-07-15 03:15 ELN 2016-07-15 09:45	
17	18	19	20	21	22	23
			Clean lab 2016-07-20 09:30 to 11:30 Lab Meeting 2016-07-20 10:00 to 12:00			
24	25	26	27	28	29	30
31	1	2	3	4	5	6

THE FUNCTIONS FOR LAB MEMBER

- PROPERTY & SUPPLIES (1/3)



1. Click Property or Supplies, you can see Property or Supplies page
2. Input condition for search
3. Click Property or Supplies Name, see details

USER PROFILE

- User Profile
- My Bookmarks
- My Photo Galleries
- Meetings
- Online Help
- Log out

PROPERTY & SUPPLIES

- Property
- Supplies

Home

Property

List | QR Code View | Import & Export

Displaying

Name	Serial	Keeper	User	Location	Status	Purchase Date	Age limit
DELL Latitude E5570	1234567	tima	tima	N401	operating	2014-07-01	3
HP DL580	7654321	cylin	cylin	N633	operating	2015-07-06	5
Mac Pro 3.5GHz	333333333	tima	tima	N401	operating	2016-04-01	3

HP DL580
Serial: 7654321
Keeper: cylin
User: cylin
Location: N633
Status: operating
Purchase Date: 2015-07-06
Age Limit: 5
Photos:

2

FILTER

Name

Serial

Keeper

User

Location

Status

- Any -

Purchase Date

Start date

E.g., 2016-07-17

End date

E.g., 2016-07-17

Apply

Reset

THE FUNCTIONS FOR LAB MEMBER

- PROPERTY & SUPPLIES (2/3)



4. Click Photo View, see pictures of Property or supplies
5. Click QR Code View, you can print QR Code and stick on Property or Supplies
6. Click Import & Export, go to Export to CSV file page

Property

List **Photo View** QR Code View Import & Export

Print

24h購物

 Latitude E5570 - Intel Core i5-6300U 4GB DDR4 2133 MHz 15.6吋 FHD IPS (1920 x 1080) - Win 10 Pro 500 GB 硬碟 - 藍芽 4.2 DELL Latitude E5570	 HP DL580
 Mac Pro 3.5GHz	

Property

List Photo View **QR Code View** Import & Export

Print

DELL Latitude E5570 SN: 1234567 	HP DL580 SN: 7654321 	Mac Pro 3.5GHz SN: 333333333 
---	--	--

Property

List Photo View QR Code View **Import & Export**

Export to CSV file

THE FUNCTIONS FOR LAB MEMBER

- PROPERTY & SUPPLIES (3/3)



7. Stick QR Code on your property
8. If you want see the detail of your property, just scan the QR Code
9. Go to page of this property

7



8



9

DELL Latitude E5570

[View](#) [Edit](#) [Manage display](#) [Track](#)

Serial: 1234567
Keeper: tima
User: tima
Location: N401
Status: operating
Purchase Date: 2014-07-01
Age Limit: 3
Photos:

24h 購物



Latitude E5570



- Intel Core i5-6300U
- 4GB DDR4 2133 MHz
- 15.6吋 FHD IPS (1920 x 1080)
- Win 10 Pro
- 500 GB 硬碟
- 藍牙 4.2

Files:

[guidebook](#)

QR Code:



THE FUNCTIONS FOR PROJECT LEADER (1/4)

Forum management

- Create, edit and delete forum topics
- Assign forums to privileged users
- Assign users to respective forums



THE FUNCTIONS FOR PROJECT LEADER (2/4)



Forum Management

1. Click Forum Management
2. You can add forum and container (As the picture shows, Research Projects is a container and Project A , B C are forums)
3. Use containers to group related forums
4. Drag and drop the cross to re-order the forums

USER PROFILE

- | User Profile
- | My Bookmarks
- | My Photo Galleries
- | Meetings
- | Online Help
- | Log out

PROPERTY & SUPPLIES

- | Property
- | Supplies

FORUM MANAGEMENT

- | **Forum Management**
- | Forum Permission



Forums

List Settings	
Add container Add forum	
Show row weights	
Name	Operations
Research Projects	edit container
Project A	edit forum
Project B	edit forum
Project C	edit forum

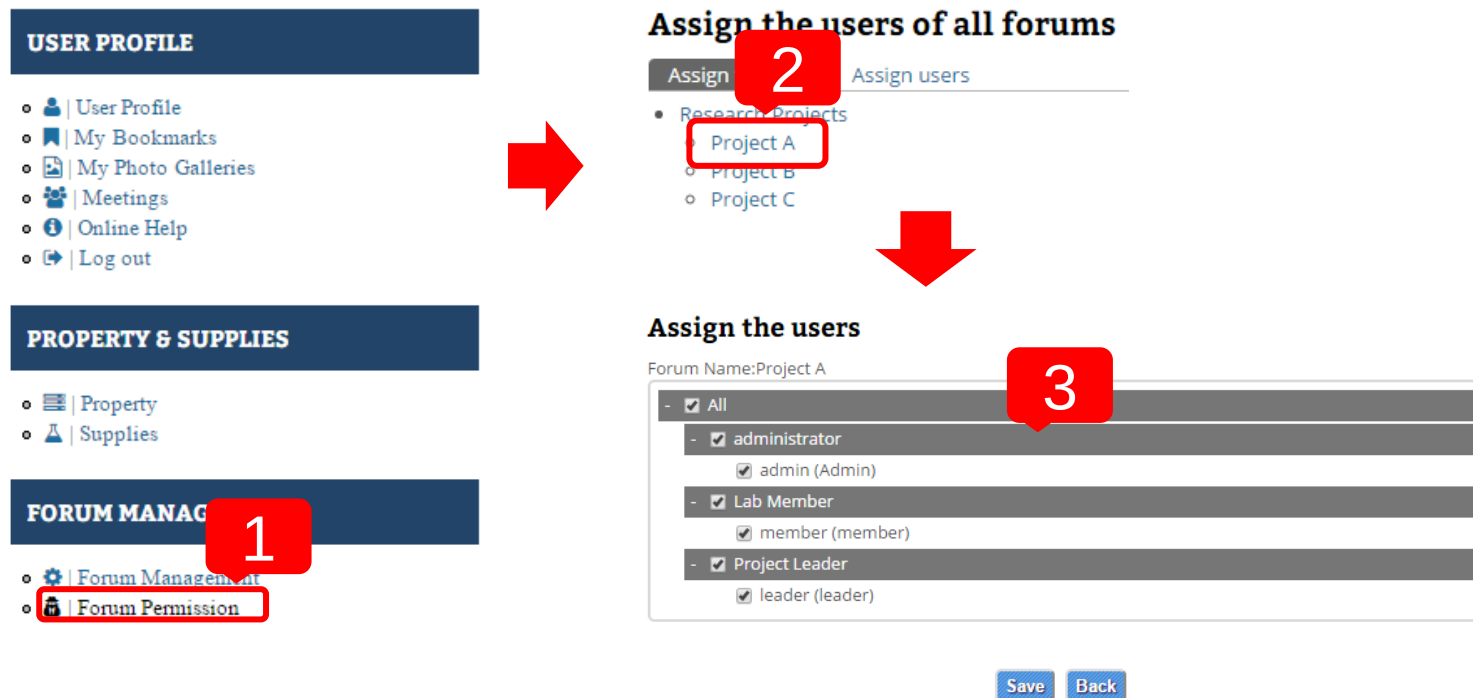
Forum

Forum	Topics	Posts	Last post
Research Projects			
Project A	0	0	n/a
Project B	0	0	n/a
Project C	0	0	n/a

THE FUNCTIONS FOR PROJECT LEADER (3/4)

Forum Permission – Assign by forums

1. Click Forum Permission
2. Click the forum which you want to adjust permission
3. Check the account name then the user can access this forum



The screenshot illustrates the process of assigning forum permissions in three steps:

- Step 1:** In the **FORUM MANAGE** section, the **Forum Permission** option is selected.
- Step 2:** In the **Assign the users of all forums** section, the **Project A** forum is selected.
- Step 3:** In the **Assign the users** section, the **Project Leader** role is selected for the forum **Project A**.

The interface includes a sidebar with sections: **USER PROFILE** (User Profile, My Bookmarks, My Photo Galleries, Meetings, Online Help, Log out), **PROPERTY & SUPPLIES** (Property, Supplies), and **FORUM MANAGE** (Forum Management, Forum Permission).

The **Assign the users of all forums** section shows a list of forums: Research Projects, Project A, Project B, and Project C. The **Assign** button is highlighted.

The **Assign the users** section shows the forum name **Project A** and a list of roles with checkboxes: **All** (checked), **administrator** (checked), **Lab Member** (checked), and **Project Leader** (checked). The **Project Leader** role is highlighted.

Buttons **Save** and **Back** are located at the bottom right.

THE FUNCTIONS FOR PROJECT LEADER (4/4)

Forum Permission – Assign by users

1. Click Assign users
2. Click the Assign link which you want to adjust permission
3. Check the forum name then the user can access this forum



Assign the forums of all users

Assign forums **Assign users**

Name	First, Last Name	角色	Assign
admin	Admin	administrator	Assign
leader	leader	Project Leader	Assign
member	member	Lab Member	Assign



Assign the forums

User Name:member

3

- ☐ All

- ☐ Research Projects

- ☐ Project A
- ☐ Project B
- ☐ Project C

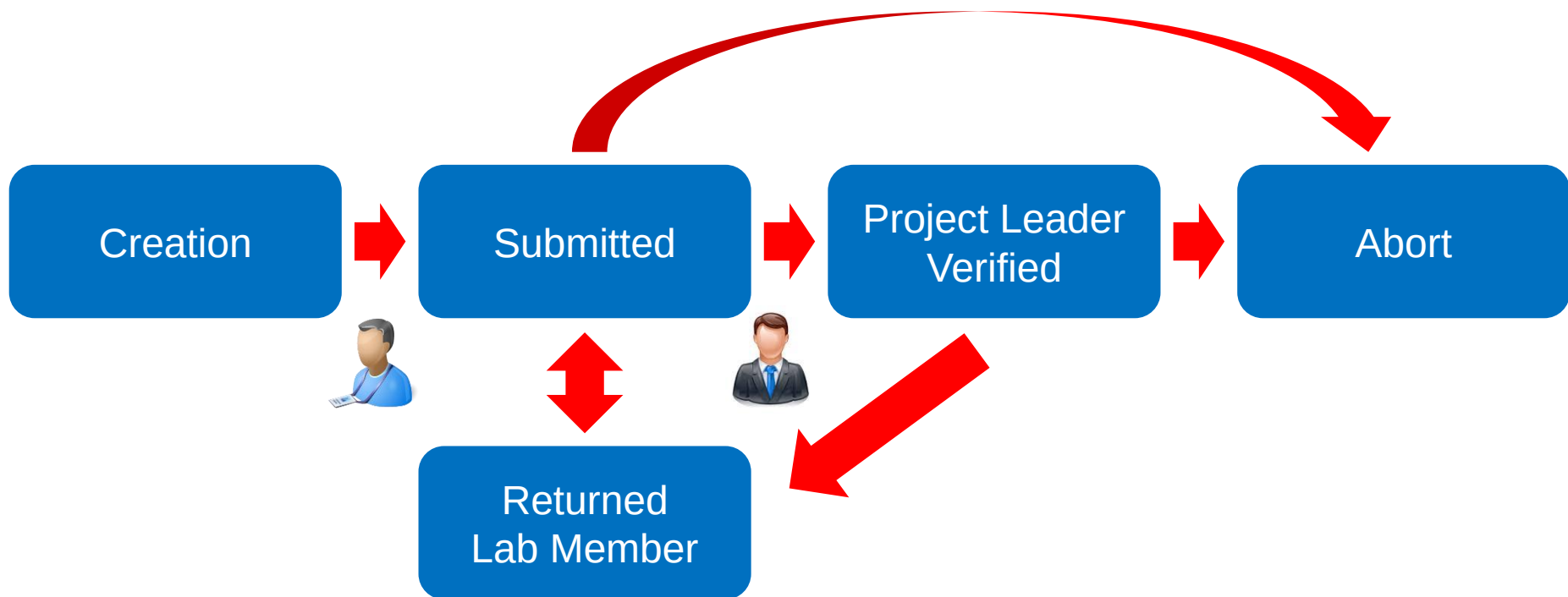
Save Back

AUDIT TRAILS AND CHANGE LOGS



WORKFLOW FOR FORUM (1/2)

1. Every forum post need to verify by Project Leader
2. Site Manager can ON/OFF this function
3. Workflow State:
Submitted, Project Leader Verified, Return Lab Member, Abort



WORKFLOW FOR FORUM (2/2)

1. Click My Task
2. See all the tasks which you can access
3. Click edit to change the state and content of this forum post

The screenshot illustrates the workflow for accessing and editing forum tasks. It is divided into three numbered steps:

- Step 1:** The 'USER PROFILE' sidebar on the left contains a list of navigation options. 'My Task' is highlighted with a red box and a red callout bubble containing the number 1.
- Step 2:** The 'My Task' page is displayed. It features a 'Title' input field, a 'Current State' dropdown menu (set to '- Any -'), and 'Apply' and 'Reset' buttons. Below this is a table of forum tasks. The 'Edit' column of the table has three links: 'edit', 'edit', and 'edit'. The second 'edit' link is highlighted with a red box and a red callout bubble containing the number 2.
- Step 3:** A dropdown menu is shown, titled 'Change Content Verify state'. It lists four options: 'Returned Lab Member', 'Submitted', 'Returned Lab Member', and 'Abort'. The second 'Returned Lab Member' option is highlighted with a red box and a red callout bubble containing the number 3.

Forum	Title	Current State	Updated date	Edit
Co-project 1	test 2	Submitted	2016-09-22 16:49	edit
My Project 1	test	Returned Lab Member	2016-09-22 16:44	edit
My Project 2	123	Project Leader Verified	2016-09-22 16:44	edit

THE FUNCTIONS FOR SITE MANAGER (1/2)

Public information update

- News
- Home page, research topics, members information, resources
- Contact us (Show results, email list setting)



Site configuration

- Theme setting
- Upload setting
- Site information (Site name, footer message, ...)
- Maintenance mode
- Backup and restore

THE FUNCTIONS FOR SITE MANAGER (2/2)

User management

- Create, edit and delete user
- Set role

Content management

- Post and comment management
- Forum management
 - Create, edit and delete forum topics
 - Assign forums to privileged users
 - Assign users to respective forums

Property and Supplies management

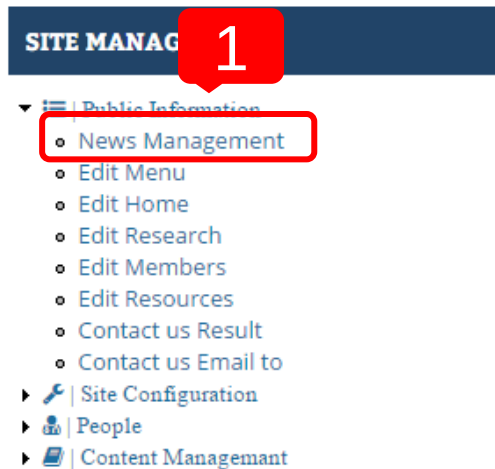
- Import from CSV file
- Export to CSV file
- Make QR code for property and supplies



THE FUNCTIONS FOR SITE MANAGER

- NEWS MANAGEMENT

1. Click News Management
2. Add, edit or delete News in this site



Home » | Public Information

最新消息

Create News

Displaying 1 - 1 of 1

Title	名稱	Updated/commented date	Edit	Delete link
news test	admin	2016-07-13 04:58	edit	delete

2

THE FUNCTIONS FOR SITE MANAGER

- EDIT MENU

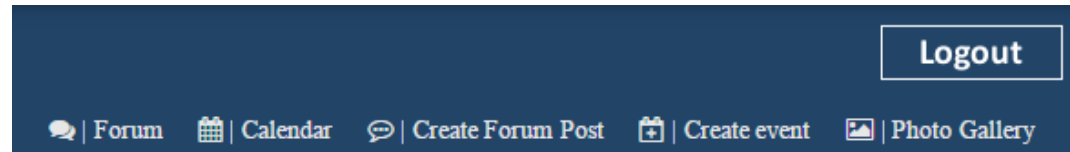
1. Click Edit Menu, see all main menus in the site, you can edit or delete
2. Enable or disable this menu
3. Add new menu



SITE MANAGEMENT

- Public Information
 - News Management
 - Edit Menu**
 - Edit Home
 - Edit Research
 - Edit Members
 - Edit Resources
 - Contact us Result
 - Contact us Email to
- Site Configuration
- People
- Content Management

1



Logout

Forum | Calendar | Create Forum Post | Create event | Photo Gallery

3

+ Add link

2

Show row weights

MENU LINK	ENABLED	OPERATIONS		
+ Forum	☒	edit	delete	translate
+ Calendar	☒	edit	delete	translate
+ Create Forum Post	☒	edit	delete	translate
+ Create event	☒	edit	delete	translate
+ Research	☒	edit	delete	translate
+ Members	☒	edit	delete	translate
+ Resources	☒	edit	delete	translate
+ Photo Gallery	☒	edit	delete	translate
+ Contact us	☒	edit	delete	translate

Save configuration

THE FUNCTIONS FOR SITE MANAGER

- PUBLIC INFORMATION



1. Edit static pages (Home, Research, Members, Resources)
2. See Contact us Result / edit Contact us email list

SITE MANAGEMENT

- Public Information
 - News Management
 - Edit Menu
 - Edit Home**
 - Edit Research**
 - Edit Members**
 - Edit Resources**
 - Contact us Result**
 - Contact us Email to**
- Site Configuration
- People
- Contact us Email to

1



Title *

Home

Body (Edit summary)



Home

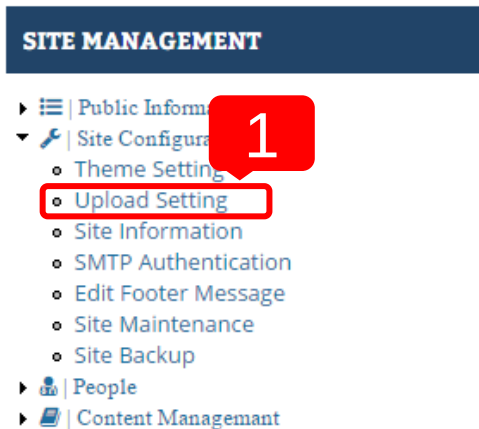
2

THE FUNCTIONS FOR SITE MANAGER

- UPLOAD SETTING



1. Click Upload Setting
2. Adjust upload quota of single user or total users and other settings about upload



Maximum file size per upload

 MB

Set to 0 to use the maximum value available. Your PHP settings limit the maximum file size per upload to 1.95 GB.

Directory quota

 MB

Define the upload quota per directory. Set to 0 to use the maximum value available.

Total user quota

 MB

This quota measures the size of all user uploaded files in the database and does not include FTP files. You can either

Permitted file extensions

Specify the allowed file extensions for uploaded files. Separate extensions with a space and do not include the lead

Maximum image dimensions

 WIDTHxHEIGHT

The maximum allowed image size (e.g. 640x480). Set to 0 for no restriction. If an [image toolkit](#) is installed, files ex

Maximum number of files per operation

You can allow users to select multiple files for operations such as delete, resize, etc. Entire batch file operation is e: exceeding the limits of your server, which is really bad. For unlimited number of file handling, set this to 0.

THE FUNCTIONS FOR SITE MANAGER

- SITE INFORMATION & FOOTER MESSAGE

1. Edit Site name, Slogan and Email
2. Edit Footer Message



SITE MANAGEMENT

- Public Information
- Site Configuration
 - Theme Setting
 - Upload Setting
 - Site Information**
 - SMTP Authentication
 - Edit Footer Message**
 - Site Maintenance
 - Site Backup
- People
- Content Management

SITE DETAILS

Site name *
ELN Demo Site
This is a multilingual variable.

Slogan
How this is used depends on your site's theme. **This is a multilingual variable.**

E-mail address *
eln.mailer@gmail.com
The *From* address in automated e-mails sent during registration and new password request

Block description *
Footer message
A brief description of your block. Used on the [Blocks administration page](#).

Block body *

Original code | Copy | Paste | Undo | Redo | Find | Replace | Bold | Italic | Underline | Strikethrough | Text color | Background color | Link | Unlink | Full screen | Help

Format | Font | Size | Style | Color | Background color

中央研究院 資訊科學研究所 系統生物學暨網路生物學實驗室
台北市南港區研究院路二段128號
電話: 02-27883799 #1452 傳真: 02-27824814, 02-26518660

THE FUNCTIONS FOR SITE MANAGER

- SMTP AUTHENTICATION & SITE MAINTENANCE

1. Edit Gmail account for sending email
2. Change to Maintenance mode, only Site Manager can access your site

SITE MANAGEMENT

- Public Information
- Site Configuration
 - Theme Setting
 - Upload Setting
 - Site Information
 - SMTP Authentication
 - Edit Footer Message
 - Site Maintenance
 - Site Backup
- People
- Content Manager

1

2

SMTP AUTHENTICATION

Leave blank if your SMTP server does not require authentication.

Username

SMTP Username.

Password

SMTP password. If you have already entered your password before, you should leave it blank.



If you are upgrading to a newer version of Drupal or upgrading contributed modules or themes, you may need to run the [update script](#).

☐ Put site into maintenance mode

When enabled, only users with the "Use the site in maintenance mode" [permission](#) are able to access your site to perform maintenance;

Maintenance mode message

ELN is close for maintenance. We should return soon. Thank you for your patience.

Message to show visitors when the site is in maintenance mode.

Save configuration

THE FUNCTIONS FOR SITE MANAGER

- SITE BACKUP

1. Click Site Backup
2. Backup Database, Files or Entire Site
3. Add schedule for backup



The screenshot shows the 'SITE MANAGEMENT' menu on the right side of the interface. The 'Site Backup' option is highlighted with a red box and a red callout bubble containing the number '1'. A large red arrow points from this menu item down to the 'SCHEDULES' tab in the top navigation bar, which is also highlighted with a red box and a red callout bubble containing the number '3'. The navigation bar includes tabs for BACKUP, RESTORE, SAVED BACKUPS, SCHEDULES, SETTINGS, and NODESQUIRREL. Below the navigation bar, there are buttons for 'Quick Backup' and 'Advanced Backup'.

[Home](#) » [Administration](#) » [Configuration](#) » [System](#)

Use this form to run simple backups of your database and files. Visit the [help page](#) for more help using this module.

QUICK BACKUP

Backup my **Default Database** to **Download** using **Default Settings**

☐ Save and ☐ Public Files Directory
☐ Add a new name to the backup

THE FUNCTIONS FOR SITE MANAGER

- USER MANAGEMENT

1. Click User Management, see all users list, you can search and edit users
2. Click Add user, add new user account
3. Input user name, email, password and belong role



SITE MANAGEMENT

- Public Information
- Site Configuration
- People**
 - Roles Management
 - User Management**
 - Content Management

2 [+ Add user](#)

1

3

SHOW ONLY USERS WHERE

role	any
permission	any
status	any

Filter

UPDATE OPTIONS

Unlock the selected users Update

☐	USERNAME	STATUS	ROLES
☐	leader	active	• Project Leader
☐	admin	active	• administrator
☐	member	active	• Lab Member

Username *

Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes.

E-mail address *

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made

Password *

Password strength: _____

Confirm password *

Provide a password for the new account in both fields.

Status

☐ Blocked

☒ Active

Roles

☒ authenticated user

☐ administrator

☐ Lab Member

☐ Project Leader

☐ Property_Supplies

☐ Notify user of new account

THE FUNCTIONS FOR SITE MANAGER

- CONTENT MANAGEMENT

1. Click Post Management, see all articles in the site, you can search, edit and delete them
2. Click Comments Management, see all the comments in the site



SITE MANAGEMENT

- Public Information
- Site Configuration
- People
- Content Management
 - Post Management
 - Comments Management

1

2

[+ Add content](#)

SHOW ONLY ITEMS WHERE

status	any
type	any
language	any

[Filter](#)

UPDATE OPTIONS

Bookmark [Update](#)

☐	TITLE	TYPE	AUTHOR	STATUS	UPDATED	LANGUAGE	OPERATIONS
☐	HP Q2612A Toner Cartridge (Black)	supplies	admin	published	2016-07-17 10:51	English	edit delete
☐	Mac Pro 3.5GHz	property	admin	published	2016-07-17 10:49	English	edit delete
☐	DELL Latitude E5570	property	admin	published	2016-07-17 10:47	English	edit delete
☐	HP DL580	property	admin	published	2016-07-17 10:44	English	edit delete
☐	Lab Meeting updated	Meeting	member	published	2016-07-15 22:01	English	edit delete clone
☐	ELN	Forum Post	member	published	2016-07-15 09:49	English	edit delete clone
☐	Clean lab new	Event Calendar	member	published	2016-07-15 09:25	English	edit delete clone
☐	Test post	Forum Post	member	published	2016-07-15 04:10	English	edit delete clone
☐	Download and Install	Basic page	admin	published	2016-07-14 23:42	Language neutral	edit delete
☐	Get Started with ELN	Basic page	admin	published	2016-07-14 22:45	Language neutral	edit delete
☐	Photo Gallery new	Basic page	admin	published	2016-07-13 04:58	Language neutral	edit delete
☐	Demo Photos new	Album	admin	published	2016-07-13 04:58	English	edit delete

UPDATE OPTIONS

Unpublish the selected comments [Update](#)

☐	SUBJECT	AUTHOR	POSTED IN	UPDATED	OPERATIONS
☐	Good	member	Test post	2016-07-15 04:25	edit

THE FUNCTIONS FOR SITE MANAGER

- PROPERTY & SUPPLIES MANAGEMENT (1/3)

1. If you need one Lab Member or Project Leader have ability to manage property & supplies, go to User Management editing this user, check Property_Supplies.
If you are administrator(Site Manager), you had this ability and don't need to do anything.



Username *
member
Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes.

E-mail address *
member@iis.sinica.edu.tw
A valid e-mail address. All e-mails from the system will be sent to this address. The

Password

Password strength:

Confirm password

To change the current user password, enter the new password in both fields.

Status
☐ Blocked
☒ Active

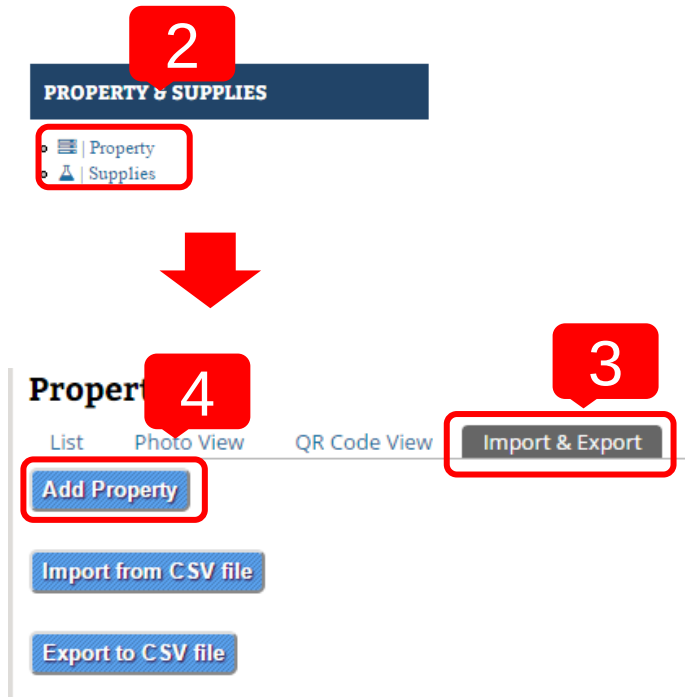
Roles
☒ authenticated user
☐ administrator
☒ Lab Member
☐ Project Leader
☒ Property_Supplies



THE FUNCTIONS FOR SITE MANAGER

- PROPERTY & SUPPLIES MANAGEMENT (2/3)

2. Click Property or Supplies, go to Property or Supplies page
3. Import & Export Property
4. Click Add Property, go to create property page
5. Input Property Name, Serial ... etc



The screenshot shows the 'Create property' form. A red box labeled '5' highlights the 'Create property' header. The form contains the following fields:

- Name *
- Serial
- Keeper
- User
- Location
- Status * (dropdown menu, currently showing 'operating')
- PURCHASE DATE *
 - Date (text input field, currently showing '2016-07-18')
 - E.g., 2016-07-18
- Age Limit * (text input field, currently showing '3')

A red arrow points from the 'Add Property' button in the previous screenshot to this form. An illustration of a person wearing a hard hat and a suit is positioned to the right of the form.

THE FUNCTIONS FOR SITE MANAGER

- PROPERTY & SUPPLIES MANAGEMENT (3/3)

6. Click Import from CSV file, go to import page
7. Download a template and enter all the content you want to import
8. Select the file you just complete
9. Import the CSV file
10. Export all property to CSV file



Property

List Photo View Code View **Import & Export**

6 Add Property

10 Export to CSV file

7 Import CSV file more of these columns: Name, Serial, Keeper, User, Location, Status, Purchase Date, Age limit, Remark.

8 Download a template

9 File encoding UTF-8

9 File proper 4_1.csv

9 Import

8 選擇檔案 未選擇任何檔案

The character that delimits fields in the CSV file.

☐ No Headers

Check if the imported CSV file does not start with a header row. If checked, mapping sources must be named '0', '1', '2' etc.

Performs character encoding conversion. Selected option to UTF-8.

Select a different file from your local system.

HARDWARE

SYSTEM REQUIREMENT

CPU

- At least 1.6 GHz

Memory

- At least 4~8 GB

Hard disk

- A minimum installation requires 300 MB
- Suggest remaining 100 GB ~ 1TB free space for your files and images.



INSTALLATION

HOW TO INSTALL?

- Please go to this page to download the installation file
 - http://eln.iis.sinica.edu.tw/elN/?q=download_elN
- During installation, input site information step by step
 - See the online help video <http://eln.iis.sinica.edu.tw/elN/?q=help>
- Now we provide Windows, Mac ,Linux and Docker version



Windows version:

ELN 2.1.2 (2016-10-26) [newest]

- solved bugs

ELN 2.1.1 (2016-07-12)

- Hierarchy bookmarks, function for make meeting, content clone, reversions, solved bugs

ELN 2.0.1 dev (2015-11-16)

- Upgrade to drupal 7.

- Mobile device support, drag and drop files, Property and Supplies management.

ELN 1.2.1 (2013-08-14)

- Performance editing.

ELN 1.1.10 (2012-01-10)

- Fix bug for editing roles.

ELN 1.1.9 (2011-10-19)

- Change Editor module.

ELN 1.1.8 (2011-04-20)

- Upgrade drupal version from 6.14 to 6.19.

- Fix IE layout problem.

ELN 1.1.7 (2010-10-21)

Mac version:

ELN 1.1.10 (2012-06-07) [ELN 2.1.2 update later]

Linux version:

ELN 2.1.2 & BioLinux 7 [Admin account :lsbnb / Admin password:lsbnbiis] (2016-10-26)

- DVD iso file

ELN 1.2.1 & BioLinux 7 [Admin account :lsbnb / Admin password:lsbnbiis] (2013-09-12)

- DVD iso file

Docker version: [Install Docker] [ELN 2.1.2 in Docker Hub]

Install script for shell script (Linux) (2017-10-24) [newest]

Install script for PowerShell (Windows) [coming soon]

HOW TO INSTALL – WINDOWS VERSION



Download the installation file and run it

Setup - ELN

Select Language

Please specify what language you prefer to use in ELN web site, then click Next.

☒ Chinese, Traditional
☐ English
☐ Japanese

About... [ELN Website](#) < Back Next > Cancel

Setup - ELN

Lab Information

Please specify your Lab Name and Contact Email, then click Next.

*Lab Name:
Test Site

*Gmail Account (Some essential functions in eln are developed based on a "mailing" function, eg. reset user password, forward a content to friends, ...etc. We suggest you to get a free, dedicated email account from [google\[gmail\]](#) for this.):
test@gmail.com

*Password for Gmail:

About... [ELN Website](#) < Back Next > Cancel

Setup - ELN

Site Manager Information

You can use this account to manage the site.

Please specify Site Manager Account, then click Next.

*Account for Site Manager:(Please input [A-Z, a-z, 0-9])
user1

*Password for Site Manager:(Please input [A-Z, a-z, 0-9])

*Password confirmed:

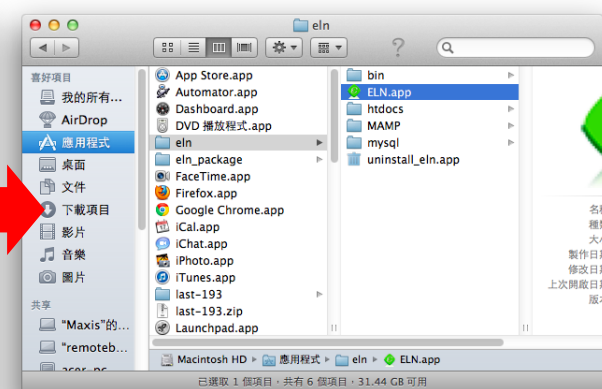
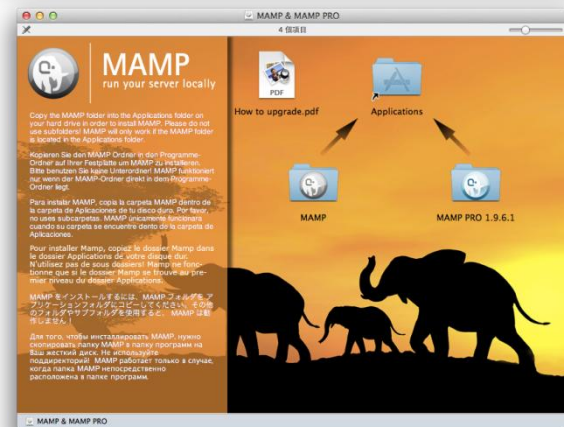
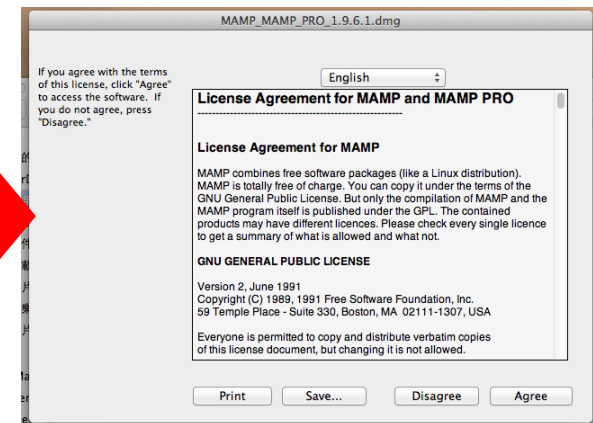
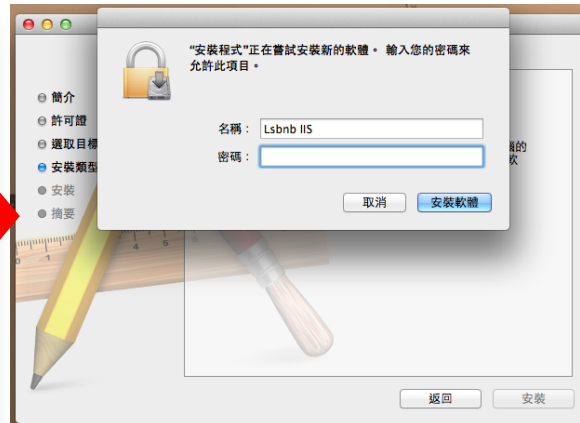
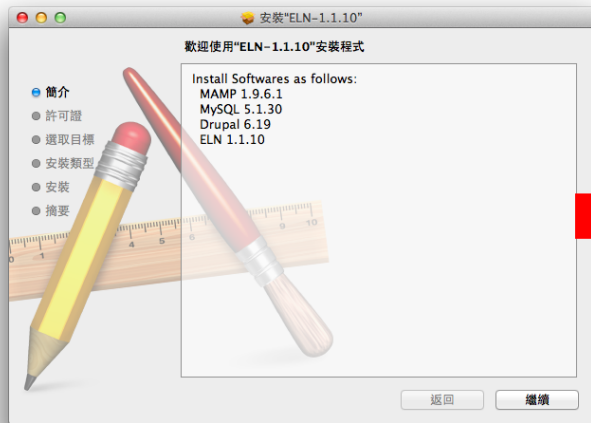
*Email for Site Manager:
user1@iis.sinica.edu.tw

About... [ELN Website](#) < Back Next > Cancel

HOW TO INSTALL – MAC VERSION



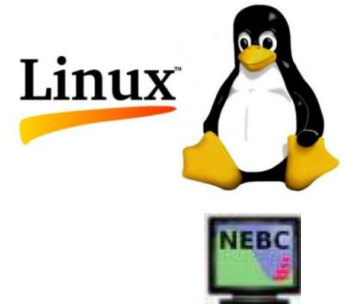
Download the installation file and run it



Drag MAMP folder to Applications

Run /Applications/eln/ELN.app

HOW TO INSTALL – LINUX VERSION (1/8)

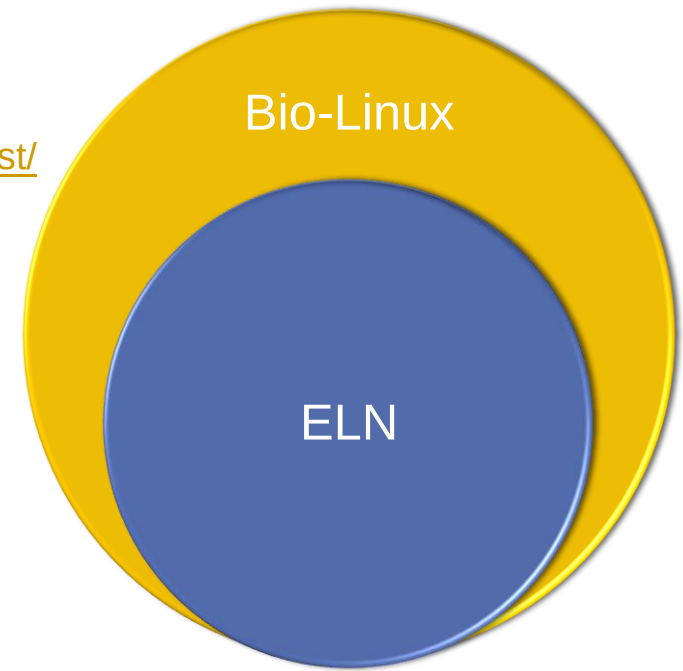


Bio-Linux

- Provides more than 500 bioinformatics programs on an Ubuntu Linux 12.04 LTS base
- Develop by NERC Environmental Bioinformatics Centre
- Software included on Bio-linux
 - <http://environmentalomics.org/bio-linux-software-list/>

Live DVD or install directly

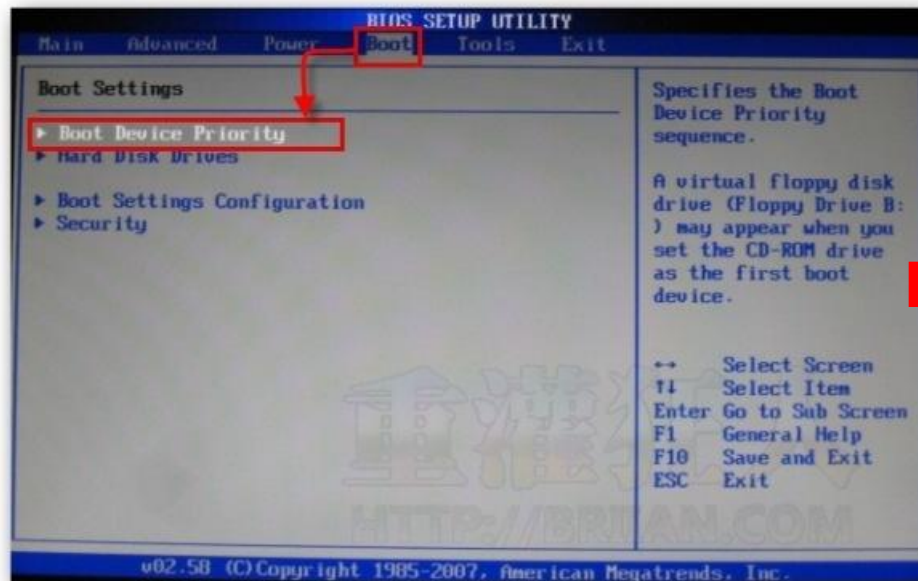
Download the ISO file and burn it to DVD



HOW TO INSTALL – LINUX VERSION (2/8)

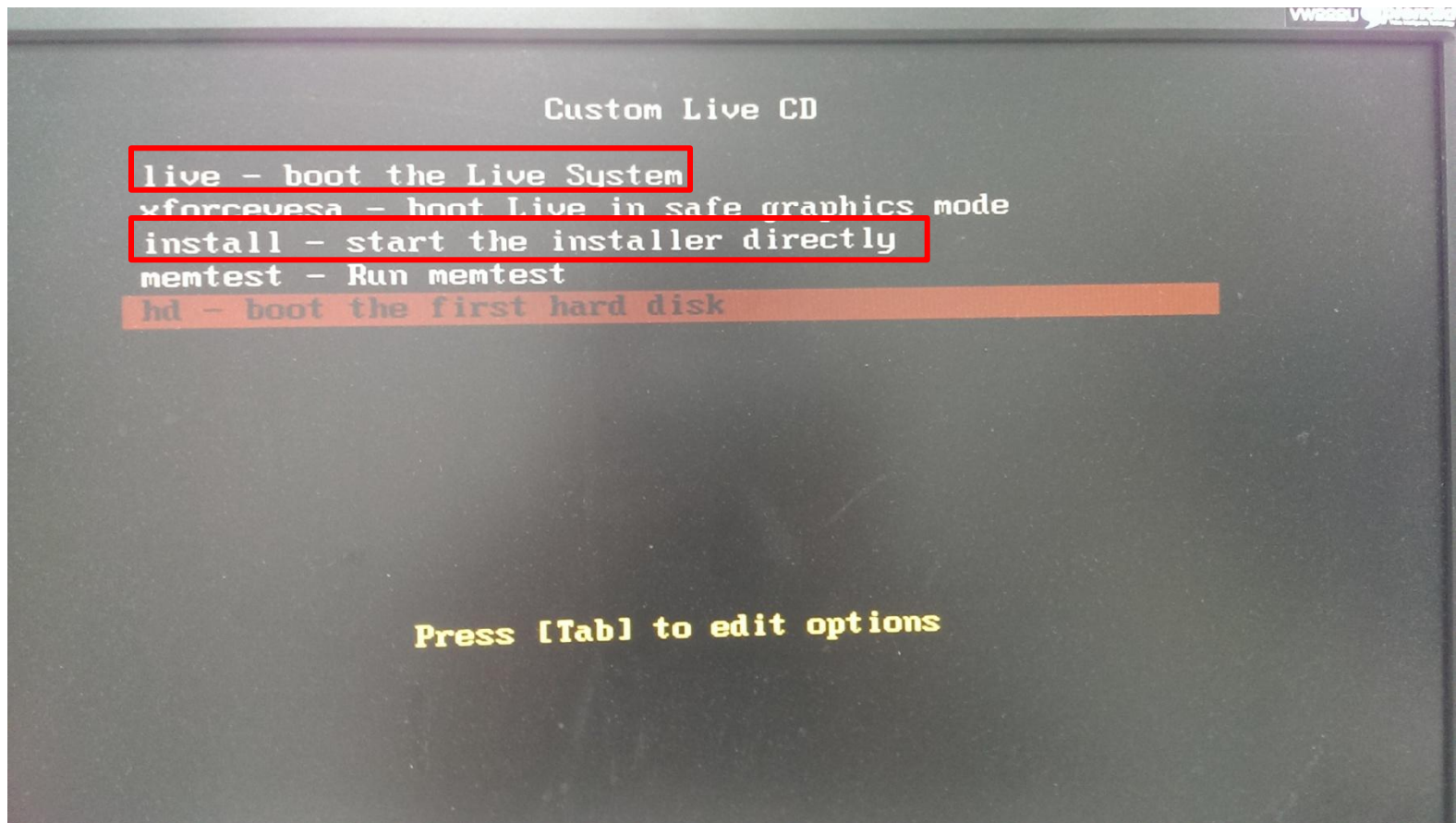
BIOS SETUP

Set first boot device is **CDROM**



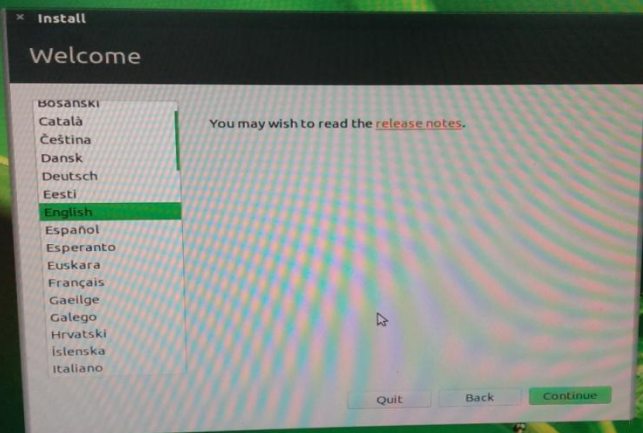
HOW TO INSTALL – LINUX VERSION (3/8)

Insert the DVD into the DVD drive and restart your computer
You can boot from **live CD** or **install directly**

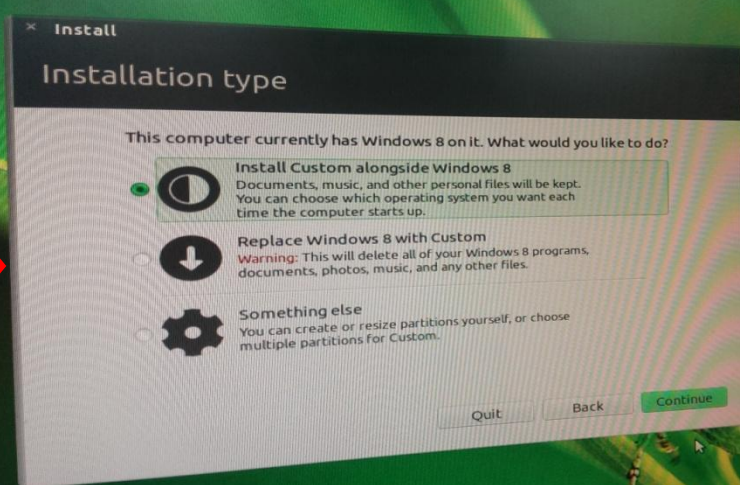


HOW TO INSTALL – LINUX VERSION (4/8)

Select your language



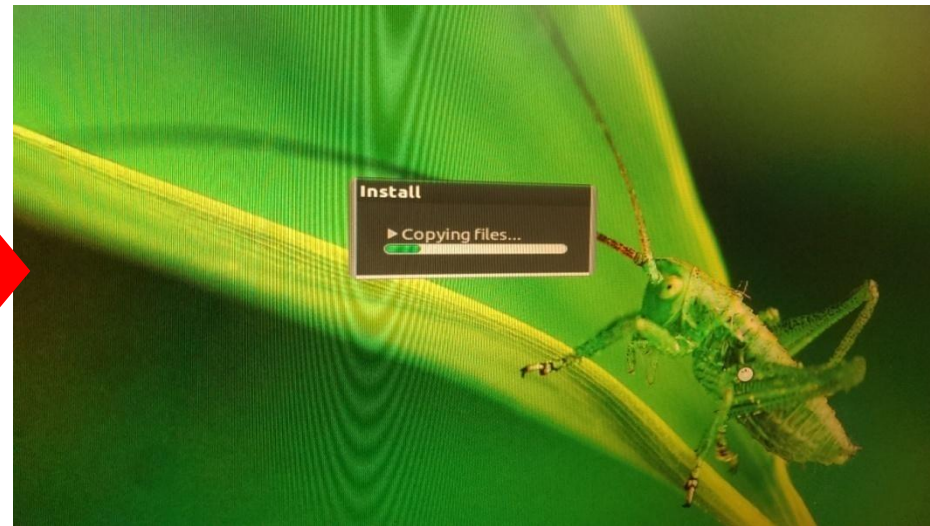
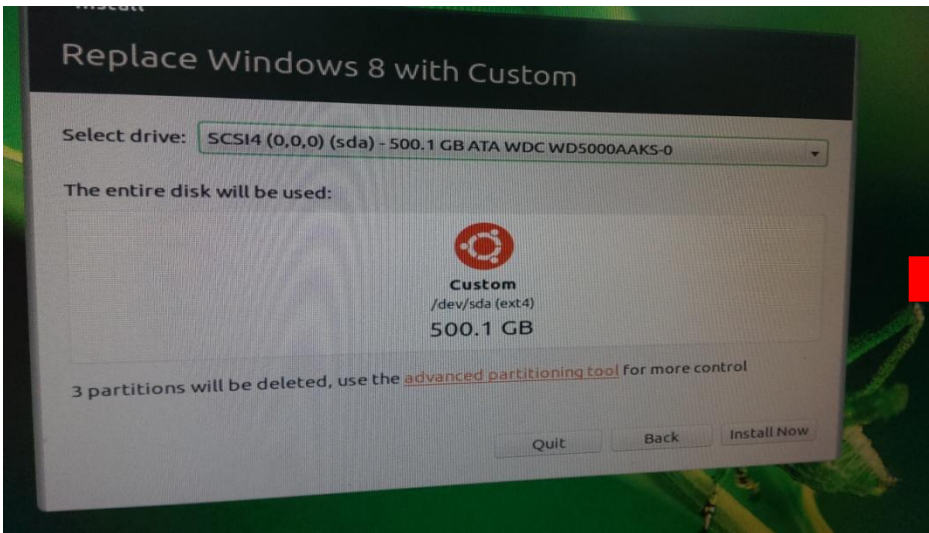
Double system or only one



HOW TO INSTALL – LINUX VERSION (5/8)

Select hard disk you want to install

Wait for copying files



HOW TO INSTALL – LINUX VERSION (6/8)

After installing, remove DVD and press Enter

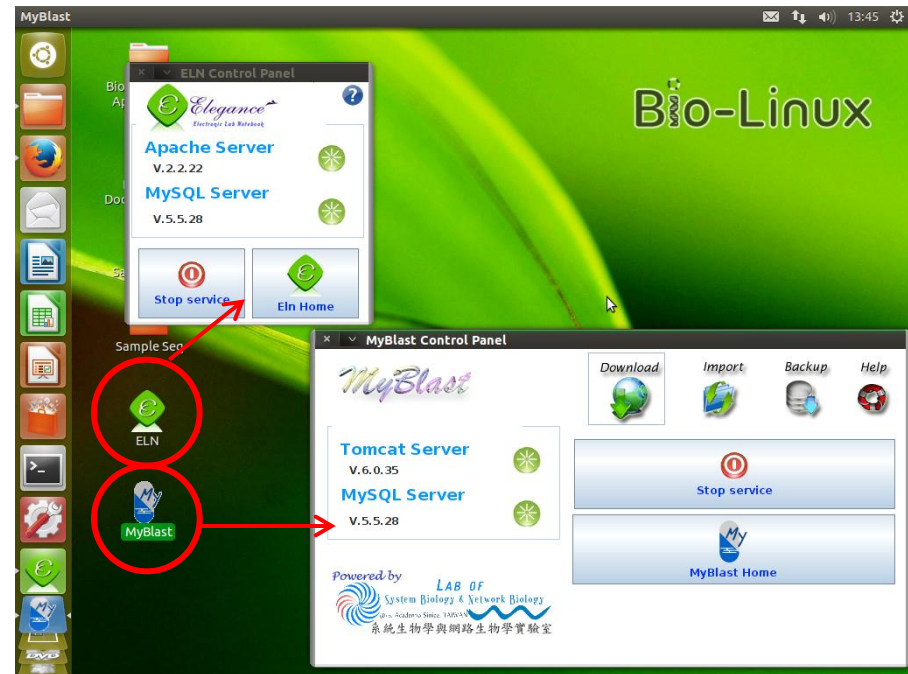
```
Checking battery status...
cpid: exiting
* Stopping MySQL Server
* Starting System V runlevel compatibility

* (plymouthd:22720): WARNING ***: Command line 'dbus-launch --autolaunch=7490bb37bd2e73f758a3033200000026 --binary-syntax --close-stderr' exited with non-zero status 1: Autolaunch error: X11 initialization failed.\n
* Stopping save sound card(s) mixer state(s)

* Starting Userspace bootplash utility
* Stopping LightDM Display Manager
* Starting Send an event to indicate plymouth is up
* Stopping Tomcat servlet engine tomcat6
apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1 for ServerName
... waiting .. * Stopping web server apache2
Checking for running unattended-upgrades:
* Stopping MTA
NX> 100 NXSERVER - Version 3.2.0-74-SVN OS (GPL, using backend: 3.5.0)
NX> 500 Service was already stopped
NX> 999 Bye
NX> 100 NXSERVER - Version 3.2.0-74-SVN OS (GPL, using backend: 3.5.0)
NX> 500 Error: No running sessions found.
NX> 999 Bye
speech-dispatcher disabled; edit /etc/default/speech-dispatcher
* Starting Send an event to indicate plymouth is up
* Asking all remaining processes to terminate...
Please remove installation media and close the tray (if any) then press ENTER:
```

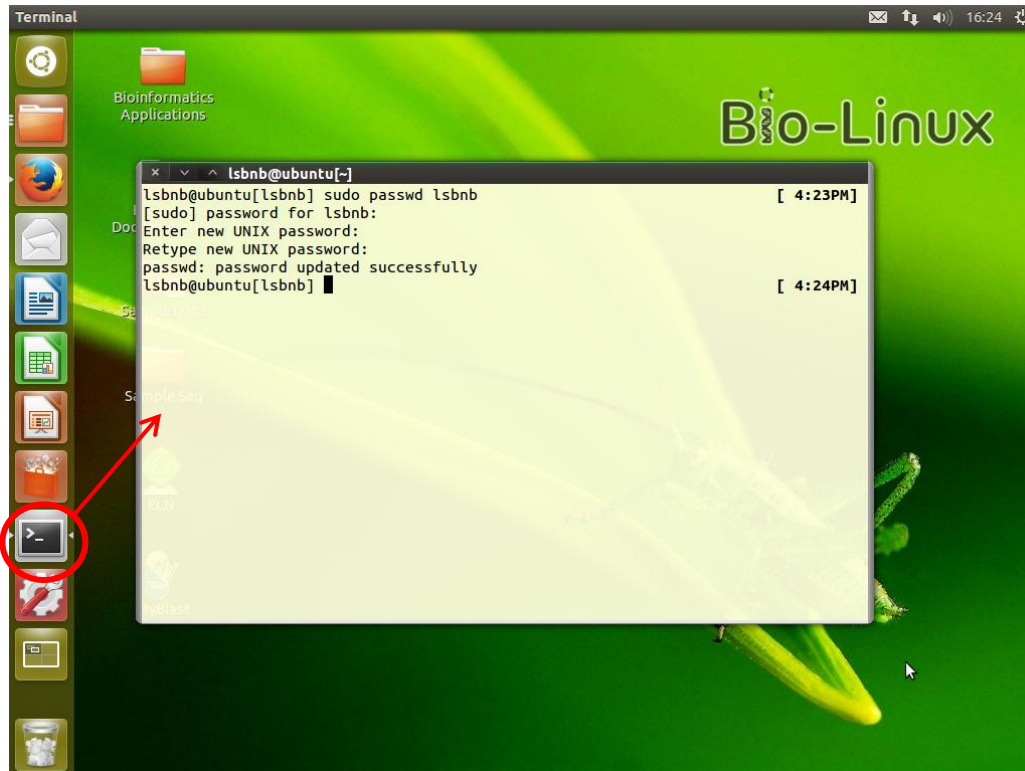
HOW TO INSTALL – LINUX VERSION (7/8)

The screen capture after installing



HOW TO INSTALL – LINUX VERSION (8/8)

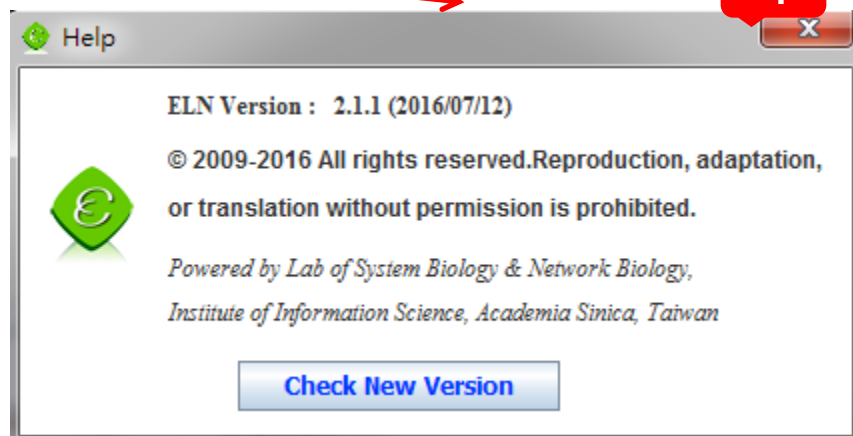
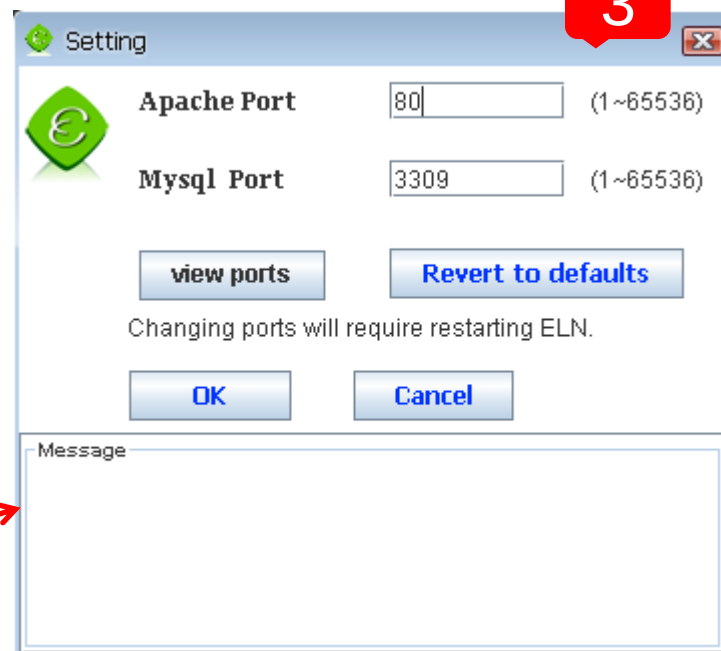
CHANGE ADMIN PASSWORD



1. Open terminal
2. Enter “sudo passwd lsbnb”
3. Password for lsbnb is “lsbnbiiis”
4. Enter new password

AFTER INSTALLATION, YOU WILL GET ELN SERVICE CONTROL PANEL

1. Apache & MySQL server start/stop
2. Go to ELN home page
3. Change Apache & MySQL port
4. Check new version



HOW TO INSTALL – DOCKER VERSION (1/3)



Run Docker anywhere



Docker for Mac

A native application using the macOS sandbox security model which delivers all Docker tools to your Mac.



Docker for Windows

A native Windows application which delivers all Docker tools to your Windows computer.



Docker for Linux

Install Docker on a computer which already has a Linux distribution installed.



Docker Cloud

A hosted service for building, testing, and deploying Docker images to your hosts.



Docker for AWS

Deploy your Docker apps on AWS.



Docker for Azure

Deploy your Docker apps on Azure.

Docker documentation : <http://docs.docker.com>

HOW TO INSTALL – DOCKER VERSION (2/3)

Download the installation script and run it (In Linux)

```
lsbnb@eln2: ~/eln_docker/test
lsbnb@eln2:~/eln_docker/test$ ls
eln_install.sh
lsbnb@eln2:~/eln_docker/test$ ./eln_install.sh
```



```
lsbnb@eln2: ~/eln_docker/test
lsbnb@eln2:~/eln_docker/test$ ls -al
total 40
drwxrwxr-x 4 lsbnb lsbnb 4096 Oct 24 22:40 .
drwxrwxr-x 7 lsbnb lsbnb 4096 Oct 24 22:38 ..
drwxr-xr-x 2 root  root  4096 Oct 24 22:40 backup
drwxr-xr-x 4 root  root  4096 Oct 24 22:40 data
-rwxrwxrwx 1 root  root   131 Sep  7 21:57 eln_backup.sh
-rwxr-xr-x 1 root  root  1107 Oct 24 22:38 eln_install.sh
-rwxrwxrwx 1 root  root   892 Sep  7 22:54 eln_restore.sh
-rwxr-xr-x 1 root  root   735 Oct 23 20:13 eln_start.sh
-rwxr-xr-x 1 root  root    36 Jul 27 12:04 eln_stop.sh
-rwxr-xr-x 1 root  root   348 Sep  7 20:08 eln_uninstall.sh
lsbnb@eln2:~/eln_docker/test$
```

Backup content

Your data save here

If you want start / stop backup / restore / uninstall, just run the script

HOW TO INSTALL – DOCKER VERSION (3/3)

Fill information when you first access ELN

Site Information

Lab Information:

Lab Name (*)

Gmail Account(*) (Some essential functions in eln are developped based on a "mailing" function, eg. reset user password, forward a content to friends, ...etc. We suggest you to get a free, dedicated email account from google[gmail] for this.)
@gmail.com

Password for Gmail (*)

Lab Address

Phone Number

Fax Number

Account Information:

Account for Site Manager(*)

Password for Site Manager(*)

Email for Site Manager(*)

Account for Lab Member(*)

Password for Lab Member(*)

Email for Lab Member(*)

COMPARE WITH OTHER ELN SYSTEM

	IARC ELN	openBIS ELN	Our ELN
Development Team	International Agency for Research on Cancer, France	Swiss Institute of Bioinformatics, Switzerland	Institute of Information Science, Academia Sinica, Taiwan
Methods	WordPress, PHP, MySQL	openBIS	Drupal, PHP, MySQL
Operating System	Linux	openBIS	Windows, Linux, Mac OS
Installation Steps	1. Install Linux, apache, MySQL, PHP 2. Customize WordPress	1. Download VirtualBox image 2. Install VirtualBox program to your OS 3. Import VirtualBox image	1. Download installation file 2. Enter your information step by step with clicks 
Images and Files Management	Insert to single post	Insert to single post	Personalize folder, reuse 
Editor(What You See Is What You Get)	Yes 	No	Yes 
Import data from file	No 	Yes 	No/ as attachment
Forum permission setting	No 	No	Yes 



Easy To Install

DEMO



FUTURE WORK

Docker script for Windows



Audit trails

- ON/OFF Function
- Visualization



ELN online version



ELN NAS version



RELATED LINKS

ELN demo site

<http://elncloud.iis.sinica.edu.tw/elndemo>

Account for Lab Member (ID / Password = member / member)

ELN web site

<http://eln.iis.sinica.edu.tw/eln/>

Installation program download

http://eln.iis.sinica.edu.tw/eln/?q=download_eln

Online help video

<http://eln.iis.sinica.edu.tw/eln/?q=help>

Contact as

<http://eln.iis.sinica.edu.tw/eln/?q=contact>

