

# **Lab wisdom management:**

## Elegancy : Electronic Lab Notebook (ELN)

Laboratory of Systems Biology & Network Biology,  
Institute of Information Science, Academia Sinica, TAIWAN

Chih-Wei Huang 2011/05/10

# Outline

- Introduction
- How to install?
- ELN service control
- How to use?
  - Lab member
  - Site manager

# Introduction (1/3)



A screenshot of a website for the "Lab of Systems Biology & Network Biology". The header includes a logo, navigation links for "研究領域", "實驗室成員", "資源分享", "照片集錄", and "聯絡我們", and a search bar.

The main content area shows a calendar for October 2010 with a red arrow pointing to the 27th. Below the calendar is a section titled "最新消息" (Latest News) with several bullet points about lab events and meetings.

To the right, there is a "DEGs\_venn\_table" section with a link to "DEGs\_venn\_cluster\_table". It includes a note about gene tables for a Venn diagram and a "DEG\_venn\_plot" chart.

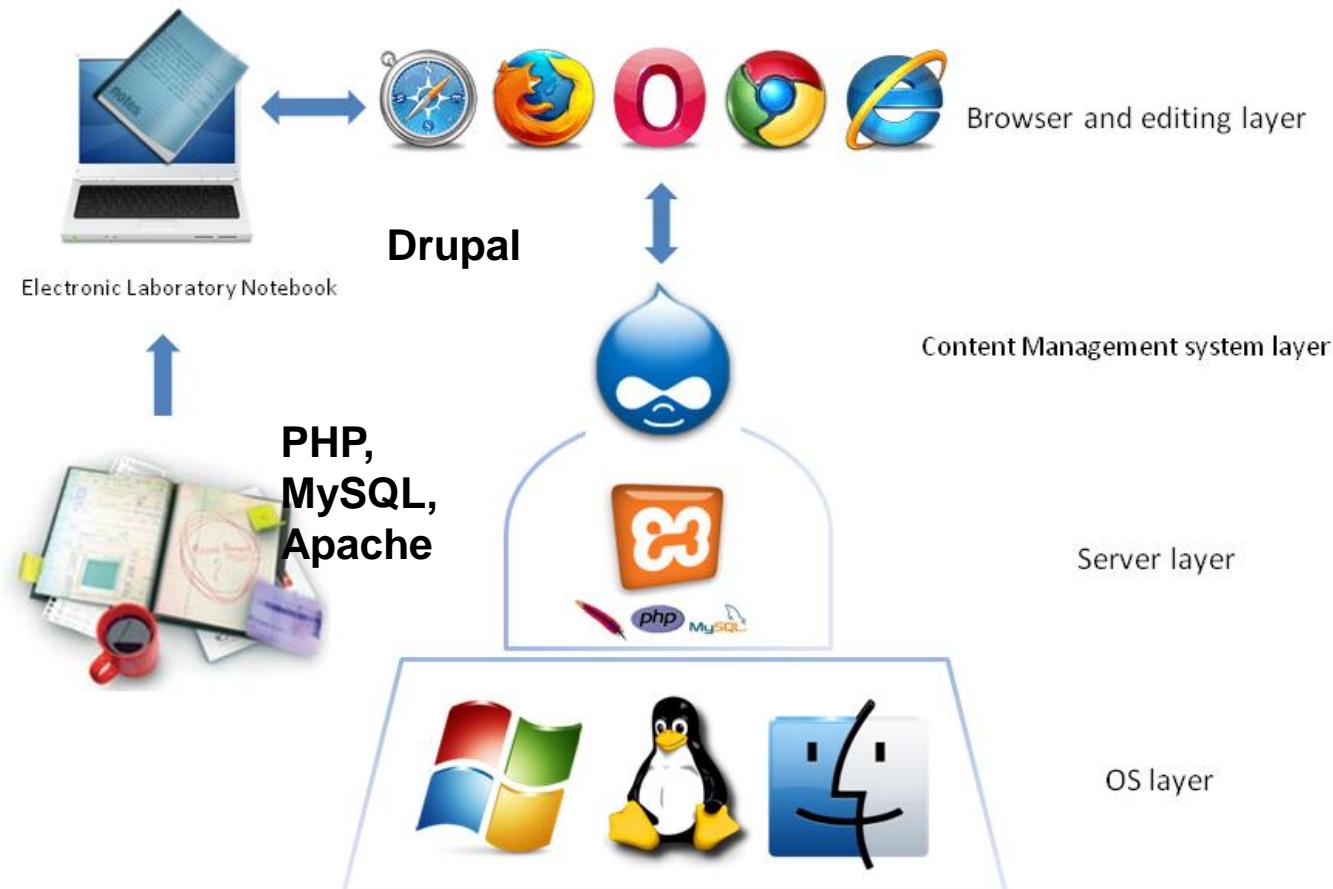
The "DEG\_venn\_plot" chart displays the overlap of two groups, A and B, with the following data:

| Category                    | Count |
|-----------------------------|-------|
| A_B (Only in A)             | 163   |
| A_P (Only in B)             | 8     |
| Intersection (Both A and B) | 0     |

The chart uses blue and yellow arcs to represent the two groups and their overlap.

# Introduction (2/3)

## Basic Structure of ELN



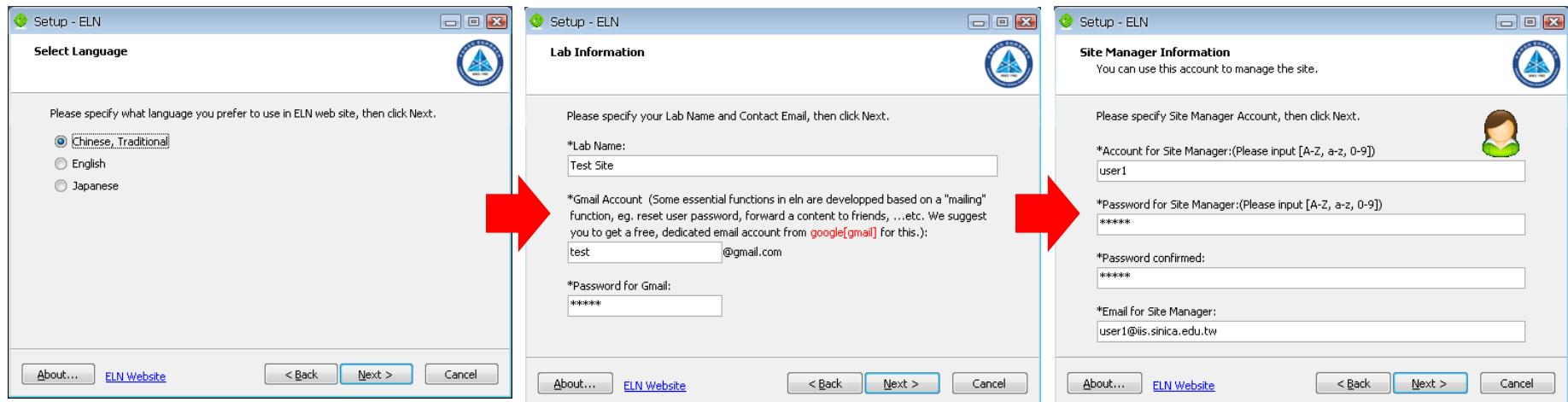
# Introduction (3/3)

## Essential Functions in ELN



# How to install?

- Please go to this page to download the installation file
  - [http://eln.iis.sinica.edu.tw/eln/?q=download\\_eln](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 version



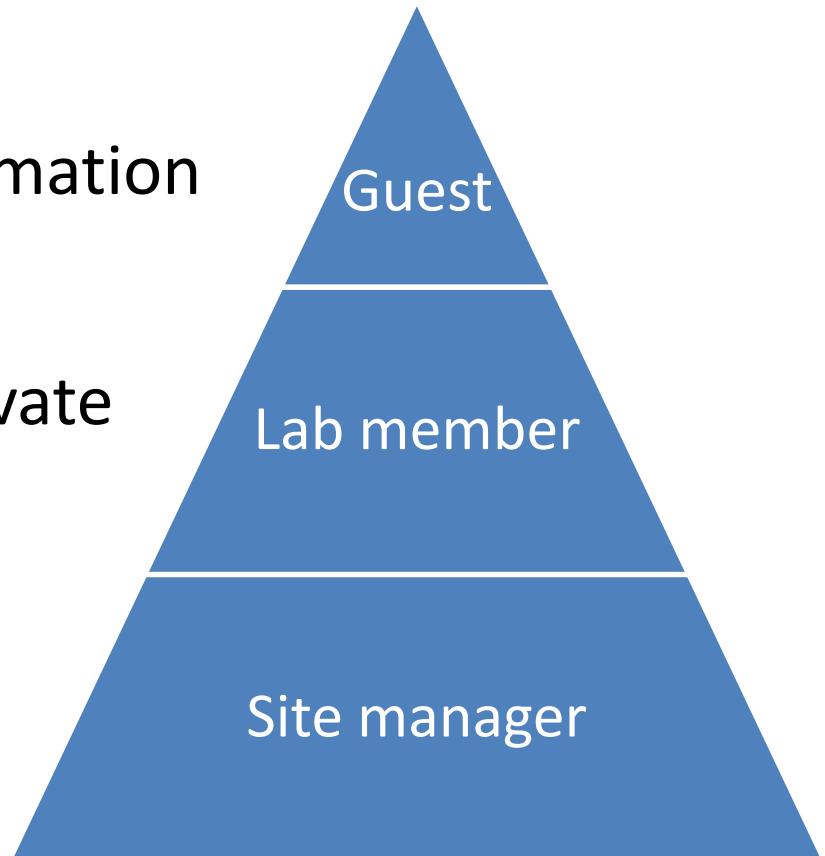
# ELN service control

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



# Role Introduction

- Guest
  - Only can see public information
- Lab member
  - View and post public/private content
- Site manager
  - User, content and theme management



# The functions of Lab member

- Messages
  - Contact with other lab members
- Calendar
- Post and reply forum topics
- File management
- Search
- Personalization
- Share content
  - Convert to printer-friendly version or PDF file
  - Email (hyperlink or full content)
  - Copy to another ELN server

# The functions of Site manager (1/2)

- Public information update
  - News
  - Front page, research topics, members information, resources, contact information
  - Photo gallery
- Site configuration
  - Theme setting
  - Language setting (Traditional Chinese, English and Japanese)
  - Site information (Site name, footer message, ...)
  - Backup and restore

# The functions of Site manager (2/2)

- User management
  - Create, edit and delete user
  - Set role
  - Assign users to respective forums
- Content management
  - Post and comment management
  - Forum management
    - Create, edit and delete forum topics
    - Assign forums to privileged users

# Related Links

- ELN web site  
<http://eln.iis.sinica.edu.tw/eln/>
- Installation program download  
[http://eln.iis.sinica.edu.tw/eln/?q=download\\_eln](http://eln.iis.sinica.edu.tw/eln/?q=download_eln)
- Online help video  
<http://eln.iis.sinica.edu.tw/eln/?q=help>
- Contact us  
<http://eln.iis.sinica.edu.tw/eln/?q=contact>