



北京大学  
PEKING UNIVERSITY



## eLearning Forum Asia 2012

24-27 April 2012 @ Peking University, China

### Next Generation Learning

Visions • Innovations • Possibilities

Teaching and Learning Innovation EXPO (the EXPO) at  
CUHK :

A mutual support platform for teachers to enhance  
teaching strategies and experience

Presented by: **Ms. Minghui CHEN, Daisy**  
**The Chinese University of Hong Kong, Hong Kong**



# Outline

1. Overview of the EXPO



2. Key elements of the EXPO  
Showcase: LE@RN biochem



3. Conclusion



# 1. Overview of the EXPO



# Overview of the EXPO

Expo: Excellence Online



Teaching and Learning Innovation Expo

Home | Programme | Keynote Speaker | Call for Presentations | Information for Poster Presentations | Information for Poster Presentation and Live | Application for Presenters | Registration as Participants | Important Dates | Location and Directions | Contact Us

## EXPO Excellence Online 2008

eLS@CU

### EXPO Excellence Online 2008

Sharing eLearning practices at CUHK

[Summary and Archive](#)

**Venue** Lecture Hall Theatre 1, and first floor, Esther Lee Building  
**Time** 10:00 am - 4:30 pm, 17 October 2008

All Rights Reserved. The Chinese University of Hong Kong 2008.

Home | Programme | To Present | To Register | Important Dates | Location | Contact Us

## Teaching and Learning Innovation EXPO 2011

eLS@CU

**NEW!**

[Summary and Archive](#)

[EXPO 2011 E-booklet \(PDF download\)](#)

We would like to invite CUHK teachers to share their teaching and learning experiences with their colleagues in the upcoming "Teaching and Learning Innovation Expo 2011". The event is scheduled to be held on 11 November 2011 (11/11/11) in Lee Shau Kee Building (former Teaching Complex at Western Campus).

This is the fifth year we have run the teaching and learning Expo at the University. The Expo allows CUHK teachers to share concepts and practices of teaching and learning innovations. We welcome all ideas and practices that lead to learning enhancement in a course, a programme or across the University as a whole, regardless of whether technology is involved or not.

The Expo provides a mutually supportive and positive environment, where creative ideas or practices that lead to learning enhancement can be exchanged through meaningful conversation or interactive sharing.

There will be regular updates to the Expo website. At this stage, the Expo has five main parts:

1. An opening and keynote speaker session (10:30 am-11:25 am).
2. A panel discussion session, co-organized by HERDSA(HK) (Higher Education Research and Development Society of Australasia, Hong Kong Branch) (11:25 am-11:55 am).
3. Talks organized in parallel sessions (25-minute slots in five sessions starting as early as 9:35 am). The talks include information

# Overview of the EXPO

## ■ Organizers

Information Technology Services Centre	Centre for Learning Enhancement And Research
(ITSC)	(CLEAR)
	

# Overview of the EXPO

Invitation

Preparation

Convention

- Official website
- Online registration
- Promotion
- Event planner



香港中文大學  
The Chinese University of Hong Kong

# Overview of the EXPO

## ■ Aims

The Expo aimed at building awareness of the diversity of learning designs available to teachers and students at CUHK.

Projects	
ELearning	<ul style="list-style-type: none"><li>• Using podcasts and blogs for deeper student engagement</li><li>• Teacher participation on Facebook and student engagement in learning</li><li>• i+A apps: Multimedia learning platform for clinical studies</li></ul>
Learning activity design	<ul style="list-style-type: none"><li>• Classroom activities for learner-centred approach</li><li>• Teaching product design with a role-playing game</li></ul>
Service promotion	<ul style="list-style-type: none"><li>• CUHK on iTunes U</li><li>• CU Student Information System (CUSIS)</li><li>• Cloud Computing Development Plan in ITSC</li></ul>
Students/campus development	<ul style="list-style-type: none"><li>• Learning Commons and Research Commons of the library</li><li>• Understanding preferences and needs of various features of informal learning spaces</li><li>• Careers E-coach</li><li>• Student Development Portfolio</li></ul>



# Overview of the EXPO

## ■ Happenings at the EXPO

Keynote session



Panel discussion



Poster presentations



Information talks

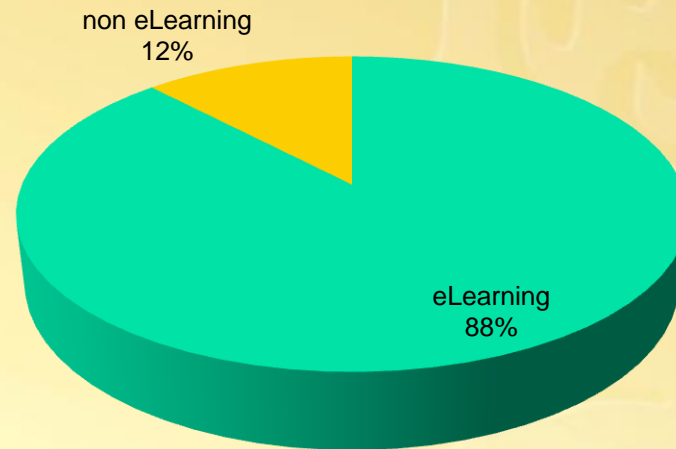


香港中文大學  
The Chinese University of Hong Kong



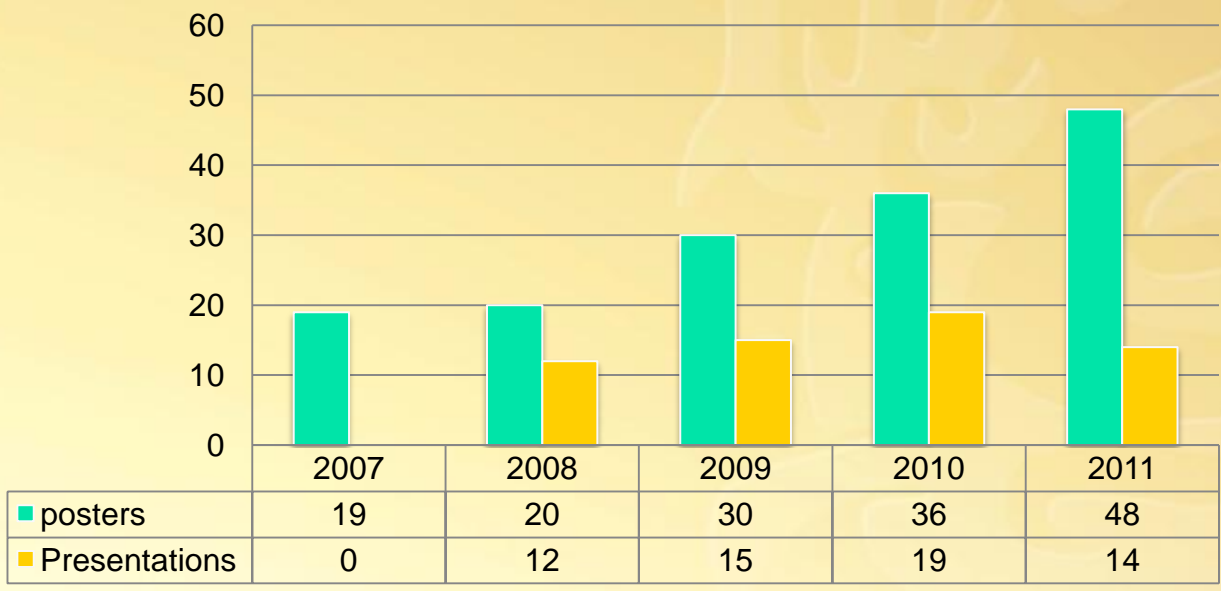
# Overview of the EXPO

## Topics and projects



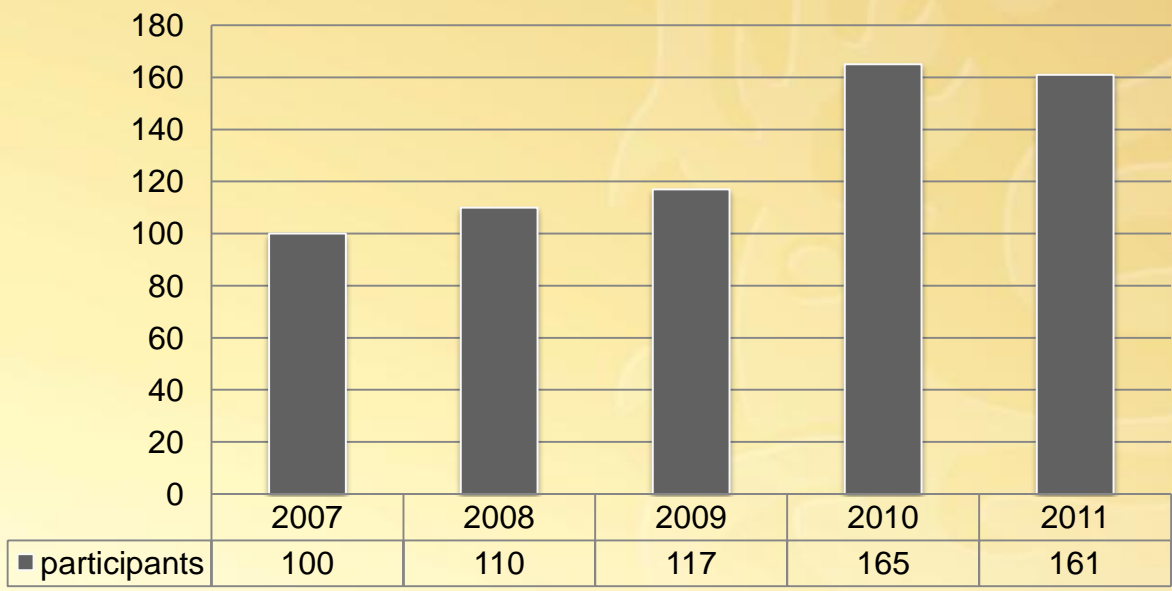
# Overview of the EXPO

Number of posters and talks in EXPO 2007-2011



# Overview of the EXPO

### Total number of attendance in the EXPO 2007-2011



# Overview of the EXPO

## ■ Teacher voices

“I attended only the poster session. I think the exchange of ideas between presenters is wonderful and spark off a lot of new ideas in T&L.”

“Provided a good platform for teachers to discuss and brainstorm teaching strategies during the poster session.”

“includes lots of (posters) presentation / discussion which are useful.”



1. Overview of EXPO



2. What's the key to the success of the EXPO?  
Showcase: LE@RN biochem



# EXPO project showcase - LE@RN BIOCHEM

LE@RN BIOCHEM

1. Protein Biochemistry Module

Download course materials for Module 1

Animation Quiz Video

Home

**a. What is Protein?**

**b. Protein Purification**

- Gel Filtration Chromatography




**c. Case study: Milk protein separation**

- Centrifugation 1
- Determination of protein using Bradford
- Centrifugation 2
- SDS-PAGE
- \* Revision Exercise

**d. Protein Structure**

- Ramachandran Plot

## Module 1 : Protein Biochemistry

In this module, there are videos , animations  and games  to illustrate concepts on protein purification and protein structures.

After going through this module, you will gain understanding on different protein purification methods, gel filtration chromatography, protein separation procedures and determination of protein concentration. You will also learn different structures of proteins.

- What they need:
  - An integrated platform
  - Supplementary materials for teachers
  - Pre-study course contents for students
- How we could help:
  - Website design
  - Animations/quizzes/games design
  - Technical support



## EXPO project showcase - LE@RN BIOCHEM

Application development in progress in Aug. 2010 – Aug. 2011  
(Website developed by the project team and ITSC)



Project “LE@RN biochem” joined poster presentation in 2010 EXPO



Pre-launch of LE@RN biochem in Aug. 2011



Pre-launch evaluation of LE@RN biochem in Oct.2011  
(Evaluation conducted by CLEAR)



Successful launch of LE@RN biochem in 2011-2012 Term 2  
Poster presentation in 2011 EXPO





## EXPO project showcase - LE@RN BIOCHEM

### ■ Evaluation - focus groups

**Video and animation** can be **very useful** for students to learn practical skills and to understand abstract concepts. The design of the platform is **well-organized** and **user-friendly**.

It was also generally agreed that **more information** could be added such as more topics and **more questions** in the quizzes.

**Teachers**

One student planned to visit the site after class or during leisure time because the site allows him to **revise the course materials** in a **more leisurely and relaxing** atmosphere.

Students are voluntary in studying **the interactive features such as quizzes** that they can **enjoy the learning process**.

**Students**



香港中文大學  
The Chinese University of Hong Kong

# e-Learning platform for Biochemical Science

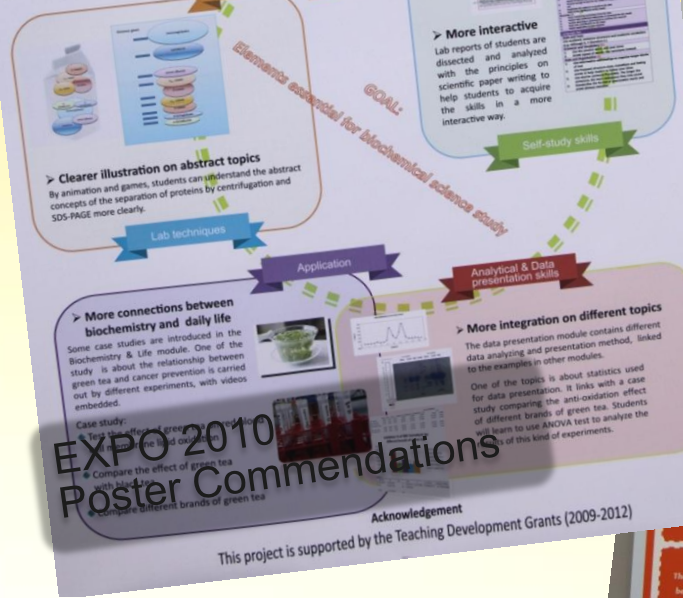
Christy Cheng, Kenneth Leung, K. C. Leung, P. C. Shaw  
School of Life Sciences

**Background**  
'e-Learning platform for Biochemical Science' is a continuum of our previous project, 'e-Learning platform for biochemistry courses' with a large extent of enhancements on the integration of different learning modules. New elements, for examples, videos, animations, interactive games and quizzes are incorporated. The goal of our project is to help students to learn biochemistry effectively.

- New features**
- ✓ In modular form
  - ✓ Increased learning elements
  - ✓ Cross-links between modules for integrative learning
  - ✓ Indicated with related course codes for students' reference

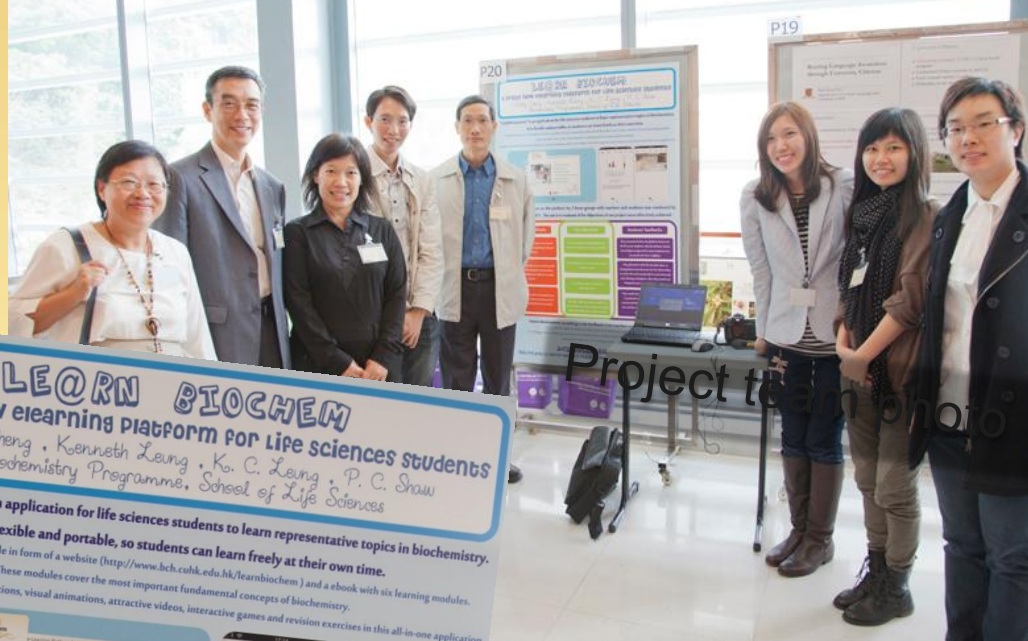
- 6 Learning Modules**
- Protein Biochemistry Module
  - DNA Technology Module
  - Biochemistry and Life Module
  - Laboratory Equipment and Techniques Module
  - Data Presentation Module
  - Self-study skills Module

## Our approach



**EXPO 2010  
Poster Commendations**

**Acknowledgement**  
This project is supported by the Teaching Development Grants (2009-2012)

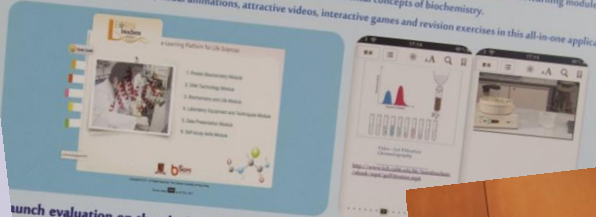


# LEARN BIOCHEM

## A brand new elearning platform for life sciences students

Christy Cheng, Kenneth Leung, K. C. Leung, P. C. Shaw  
Biochemistry Programme, School of Life Sciences

"LE@RN biochem" is an application for life sciences students to learn representative topics in biochemistry. It is flexible and portable, so students can learn freely at their own time. "LE@RN biochem" is available in form of a website (<http://www.bch.cuhk.edu.hk/learnbiochem>) and a book with six learning modules. These modules cover the most important fundamental concepts of biochemistry. Students would find clear descriptions, visual animations, attractive videos, interactive games and revision exercises in this all-in-one application.



Launch evaluation on the platform by 2 focus groups with teachers and students in late Oct 2011. The aim is to evaluate if the objectives of our project are achieved.

**Teachers' feedbacks**

They stated that the topics are essential for learning of biochemistry.

They appreciated the knowledge regarding learning of biochemistry.

They stated that they have used the module for writing lab reports and the illustrations of difficult concepts in class.

They agreed that the video and animation can be very useful for students to learn practical skills and to understand abstract concepts.

**Our objectives**

- As an integrated learning platform on some core topics for junior year students
- As a supplementary revision material of various courses
- As a tool for teachers to facilitate teaching in class
- As a self-study platform for students to learn about the topics and to revise the topics

They commented that this is the first year they have used the platform. They planned to use the platform during lecture time to revise the content and to make the learning more interesting and relaxing. They would visit the platform in particular the lab manual and the test and lab manual sections.



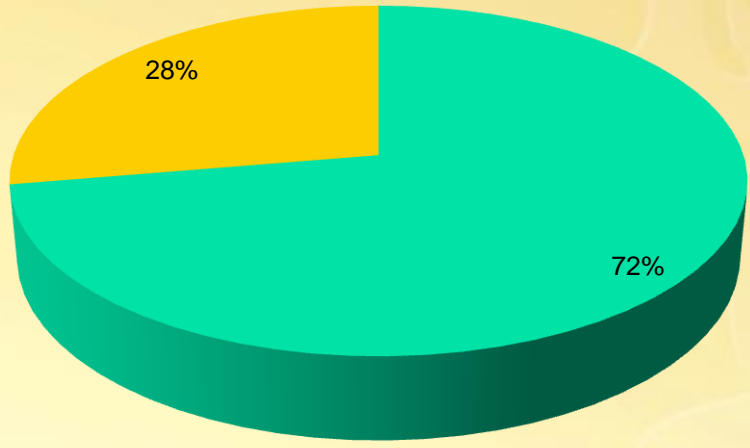
**EXPO 2011  
Poster Commendations**

**Acknowledgement**  
This project is supported by a Teaching Development Grant 2009-2012

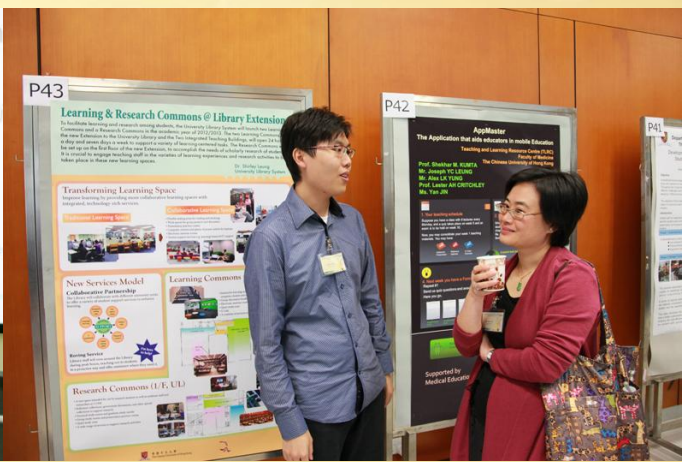
**Future development:** according to the feedback from teachers and students

- To enrich the platform with more topics for secondary school and university students
- To bridge the knowledge gap that may exist between the secondary school and university students, particularly in the new 3+3+4 arrangements.

# In the EXPO 2011...



- Other projects
- Projects involved with CLEAR/ITSC



1. Overview of EXPO



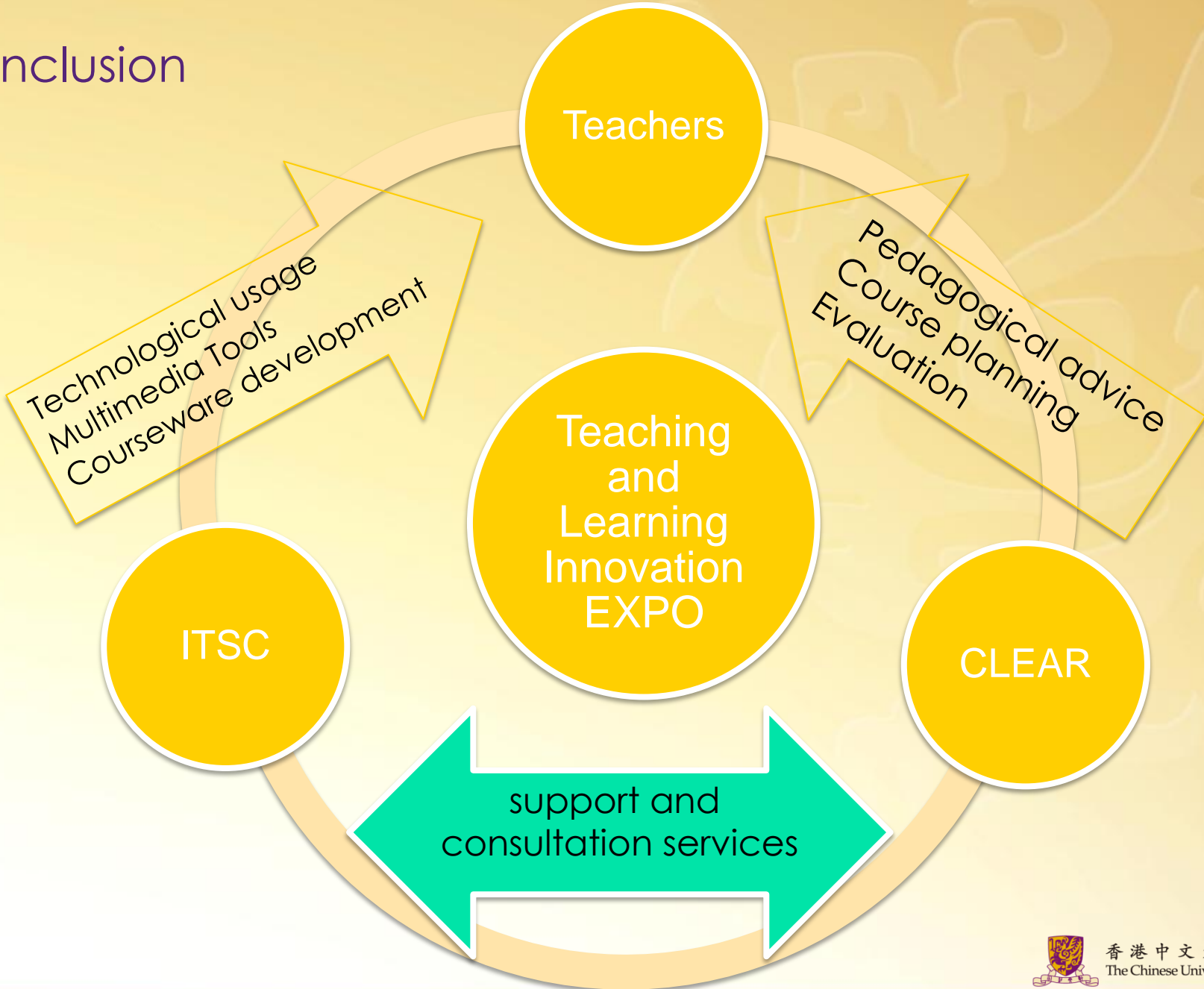
2. What's the key to the success of the EXPO?  
Showcase: LE@RN biochem



3. Conclusion



# Conclusion



# Acknowledgements:

Many colleagues at CUHK provide the information assembled in the presentation, Their contributions are gratefully acknowledged:

Paul Lam, Shun-leung Lam, Kevin Wong (Centre for Learning Enhancement And Research)

Carol Chiu, Judy Lo, Eva Cheung, Prinporn Lau, Monki Law (Information Technologies Services Centre)

Christy Cheng, Kenneth Leung, P. C. Shaw (LE@RN BIOCHEM project team)



香港中文大學  
The Chinese University of Hong Kong

# Teaching and Learning Innovation EXP@2011

**11 November 2011**  
Lecture Theatre 6, 1/F and 2/F  
Lee Shau Kee Building  
The Chinese University of Hong Kong

**12-18 November 2011**  
**Follow-up**  
**Poster Exhibition**  
1/F, Lee Shau Kee Building



## Teaching and Learning Innovation Exp@2010

**22 October 2010**  
Teaching Complex at Western Campus  
The Chinese University of Hong Kong

The Expo provides a mutually supportive and positive environment, where creative ideas or practices that lead to learning enhancement can be exchanged through meaningful conversation and interactive sharing.

**Keynote address**  
on "Authentic learning designs: Creating engaging real-world learning tasks", Professor Jan Herrington, School of Education, Murdoch University, Australia.

**Talks**  
organized in parallel sessions (25-minute information talks on defined themes, and formal presentations by teachers on their work.

**Poster presentations**  
in which our participants can enjoy a light lunch while learning new ideas by discussing with others.

We welcome all teachers, researchers and scholars to come and join us.

Submitting a proposal (abstract or short paper) as talk and/or poster presenter; deadline is **15 September, 2010**.

Participants can be done [www.cuhk.edu.hk/elearning](http://www.cuhk.edu.hk/elearning)

**Thank you!**

**Q & A**



## EXPO Excellence Online 2008

eLS@CU

EXPO Excellence Online 2008  
Sharing eLearning practices at CUHK

[Summary and Archive](#)

[Objectives](#)

- Home
- Programme
- Keynote Speaker
- Call for Presentations
- Information for Poster Presentations
- Information for Poster Presentation and Talk
- Application for Presenters
- Registration as Participants
- Important Dates
- Location and Directions
- Contact Us



<http://www.cuhk.edu.hk/eLearning/expo/>