

# E-Learning resources - Suggestions from the community (1)

- NLN materials Home produced Articulate material
- TRIADS neurosim CaseIT 1. Diagnostic testing of maths/chem. 2. Formative assessment within modules. 3. WebCT student presentations tool.
- Genetics and DNA Technologies Genetic Engineering Hypertext (Toolbook facility) Bacteriophage (ToolBook facility) Minitab- statistics Kruger World - biodiversity indices Virtual labs - created in-house by our learning technology unit. 1. E-portfolio system (developed in house) 2. Anatomy for Biomedical Sciences (CAL-package developed in house) 3. Undergraduate database (includes rich information on students and also links to module and stage evaluations) 4. A gene-cloning exercise
- We only use WebCT and a small number of computer simulations (e.g. frog heart).
- Introduction to Immunology
- Verlag-Thieme's SimNerve Newbyte - Drosophila Genetics Adaptive Biosystems Bioview Control Rat Cardiovascular Pharmacology Simulation (available from Strathclyde University); WebCT

# E-Learning resources - Suggestions from the community (2)

- KaryoLab, Peter Klappa's work,
- Powerpoint packages used as learning package (eg. t test). Areas of college intranet (IBIS) giving access to referencing. VLE module "Developmental Biology"
- Verlag-Thieme's SimNerve Newbyte - Drosophila Genetics Adaptive Biosystems Bioview Control
- Beginners guide to Word, Beginners guide to Excel
- Rasmol
- Statistics for the terrified Sheffield Bioscience simulations (Muscle physiology, blood physiology, blood coagulation) In house produced Web material particularly on protein structure/mechanistic enzymology
- Our own pharmacological simulation packages which can be downloaded free of charge from the departmental web site. 2) BPS PharmacaCALogy simulations. 3) PCCAL Pharmacy Courseware
- activities based around bioinformatics tools and data (EMBOSS), image analysis (Scion Image) and system dynamics (Vensim).

# e-Learning resources

- What do we mean by 'resource'?
  - A usable component that supports e-Learning
    - More content than system
- Lots of ways to find resources
  - Google set a new standard, when the web was smaller back in '98 - Recent 'stuffing' and volume concerns
- VLE problems
  - Resources behind institutional gateways
  - Traditional applications may be more complex and difficult to maintain, having 'aged in the cask'
    - Local configuration not as portable

# e-Learning resources

- Using the web
  - How do you find what you are looking for?
    - Does others have similar habits?
    - Do your students have better habits?
  - How can this be improved?
    - Quality versus time?
- Resource databases
  - Subject centre databases
    - Being converted to common catalogue format capable of exchange and aggregation (uklom)
      - Many types of resource listed i.e. offline content
    - <http://www.bioscience.heacademy.ac.uk/resources/KB/>
- RDN hubs (JISC)
  - E.g. BIOME – internet resources only <http://biome.ac.uk/>
  - JISC Resource Guides available

# e-Learning resources

- What is the community's view of the resource problem?
  - Do you want to know what resources similar courses are using and how well they performed?
  - Would you be prepared to share your experiences?
- What would you prefer to use as a means of discovery?
- Where are the gaps?
- Activity: Discuss and suggest better ways to acquire the resource you need, or share the ones you have.

# The e-Learning project and e-Learning resources

# Update - Recent JISC conference

- Keen to support subject based approaches to content development
- Recognises that end-users need better and more appropriate information
  - JISC has a good track record at the higher levels
    - Complex framework for e-Learning under construction
  - New website for specific e-Learning support
    - JISC e-Learning focus <http://www.elearning.ac.uk/>

# Keeping us informed

- We would like to be able to share the Biooscience community's e-Learning experiences beyond our projects too
- If you are aware of projects and activities which would be useful to us please keep us informed via your Bioscience subject centre representative

# JISC X4L projects

- Three projects which we should be aware of (further information in pack)
- JORUM
  - A repository for learning objects (all shapes and sizes) available from July 2005
- ReLoad
  - A tool to gather and organise slides, notes and activities into virtual packs (a.k.a Content Packages)
- TOIA
  - A non-proprietary solution to delivering assessment online. Freely available to HE and FE.
- More standardised materials are likely to follow over the next few years
- These *could* save significant time and effort preparing and delivering e-Learning