BioCoRE

Biological Collaborative Research Environment

Project: Actin

Project Summary | Create a New Project   **LOGOUT**

Directory   **Sort**

- Eval Folder
  - Summary of
  - Initial views
- Prior Work
  - NAMD-CFG
  - Monitoring too
- Articles
  - Journal of C
  - ACM Journ
  - Web-based
- Future Work
  - BioFS Layer
  - Docs Section
  - Group Calend

BioCoRE Notebook

Page title: _____

Page owner: **Joe Scientist**   Creation date: **9/3/01**   Last modified: **9/3/01**   Notarization date: **9/3/01**
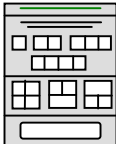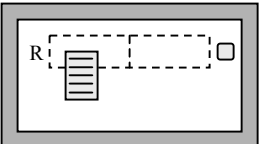
Publication status: ○ **Public**   ● **Private**

?

The BioCoRE Notebook Editor

What it does: The Notebook editor helps users create notebook pages that will appear as .html pages viewable by a web browser.

How to create a page: Click the 'New Page' button below, and then click 'Click here to ADD a ROW' to start adding content.

How page content is organized: Rows of boxes are used to add content to a page. For example, if you wanted to put an image on a page and add some text about the image, you could select a row with two boxes, one box for the image and the other for the text (see below). To add more content, add another row.

1. Decide what content you want to add to the page, e.g. text and an image, and then click the 'ADD a ROW' button.	2. Select the row layout you want, e.g. a row with two boxes for an image and some text, from the menu that appears and add it to the page.	3. Right-click within a box in a row to get a list of Editors that let you add content to a box. For example, the text and image editors to add text and an image
Click here to ADD a ROW		R

Clear Page   **Delete Item**   **Edit HTML**   **Save Changes**   **Preview Page**   **New Page**   **Submit Page**   **Notarize Page**

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BioCoRE Notebook

Page title:

Publication status: ○ **Public**   ● **Private**   **?**

Page owner: Joe Scientist   **Creation date: 9/3/01**   **Last modified: 9/3/01**   **Notarization date: 9/3/01**

---------------------------- **Click here to ADD a ROW** --------------------------------

- •One object (image, text, video, JMV, etc.) per box in a row
- •Right-click within a box to get a list of object Editors to insert content
- •Use the vertical dashed line(s) to re-size the width of boxes in a row
- •Click 'Preview Page' below to view page in a new browser window

Clear Page | **Delete Item** | **Edit HTML** | **Save Changes** | **Preview Page** | **New Page** | **Submit Page** | **Notarize Page**

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BioCoRE Notebook

Page title: _____

Publication status: ○ Public ● Private

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Page owner: Joe Scientist   **Creation date:** 9/3/01   **Last modified:** 9/3/01   **Notarization date:** 9/3/01

------------------------------- **Click here to ADD a ROW** -------------------------------

- One object (image, text, video, JMV, etc.) per box in a row
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- Use the vertical dashed line(s) to re-size the width of boxes in a row
- Click 'Preview Page' below to view page in a new browser window

Add a row to BioCoRE Notebook

Select a row with the number of boxes you want on the page(up to five boxes in a single row):

Or, you can also select a two-row layout of boxes:

Click here to add selection to page

| **Clear Page** | **Delete Item** | **Edit HTML** | **Save Changes** | **Preview Page** | **New Page** | **Submit Page** | **Notarize Page** |

BioCoRE

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Project: Actin

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BioCoRE Notebook

Page title: [   ]

Publication status: ○ Public   ● Private   [?]

Page owner: **Joe Scientist**   Creation date: **9/3/01**   Last modified: **9/3/01**   Notarization date: **9/3/01**

Directory | Sort

- 📁 Eval Folder
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>>> [Click to insert row here] <<<

Box 1	Box 2

Row 1

Delete Row 1

>>> [Click to insert row here] <<<

Box 1	Box 2	Box 3

Row 2

Delete Row 2

EDITORS
- Text/File refs/URLs
- Whiteboard/Images
- Table
- Equations
- JMV
- Video/Audio

- Configure Editors -

------- **Click here to ADD a ROW** -------------------------------

- One object (image, text, video, JMV, etc.) per box in a row
- Right-click within a box to get a list of object Editors to insert content
- Use the vertical dashed line(s) to re-size boxes the width of boxes in a row
- Click 'Preview Page' below to view page in a new browser window

[Clear Page] [Delete Item] [Edit HTML] [Save Changes] [Preview Page] [New Page] [Submit Page] [Notarize Page]

Text Editor Prototype for BioCoRE Notebook

BioCoRE Notebook Text Editor

File   Undo   Redo   Cut   Paste   Links   Math   Sym.   Font Formats   Help

B   U   I   A↑ A↓   A   X² X₂   ?
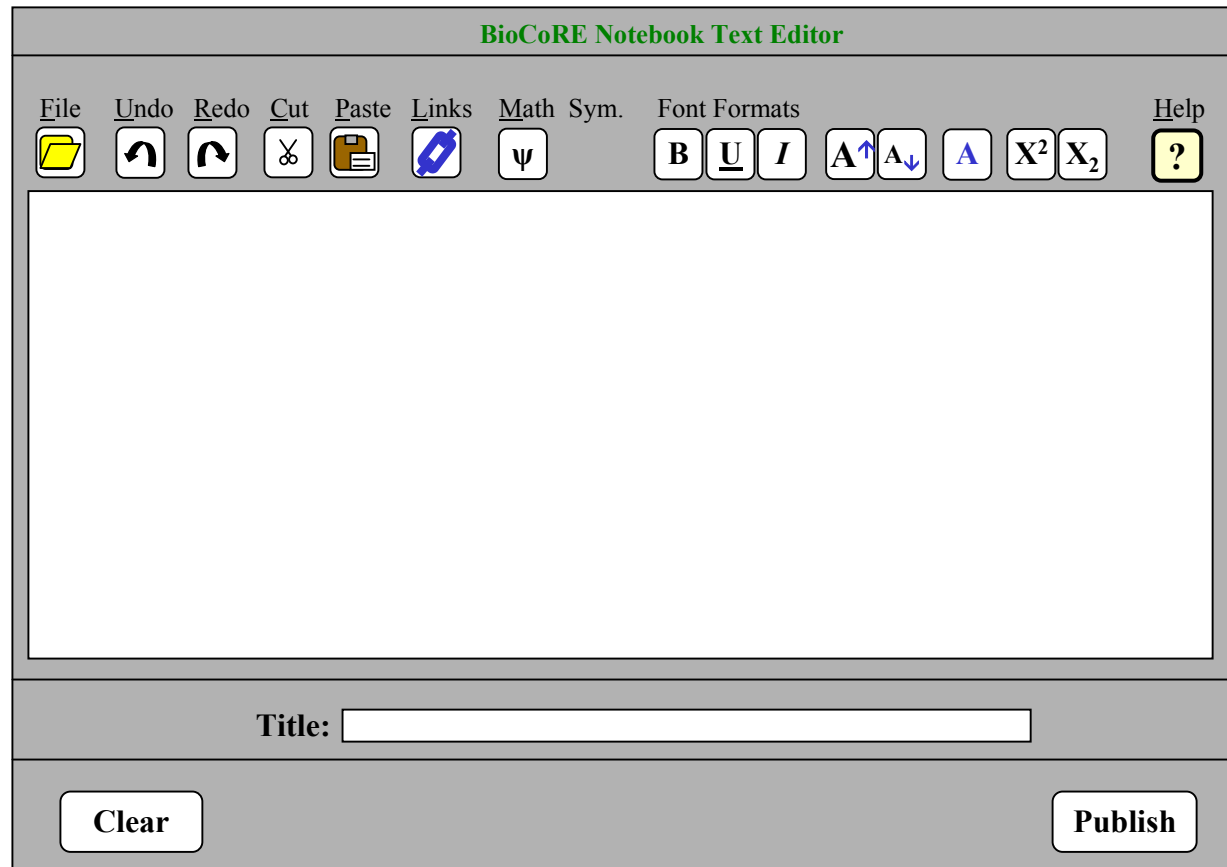
ψ   Drop-down menu of Greek/math characters.

✎   Menu allowing insertion of URLs or BioFS file refs (will open in new window).

A   Text color menu.

Title:

Clear   **Publish**

How it works

•A basic text to HTML editor, so that your text can be read as a web page

•Text formatting limited to what you can do in basic HTML; will include math symbols for use in equations, etc.

•Can insert URLs and references to BioFS files – they will open in a new browser window

•Can add a centered title to the text passage if desired

Equation Editor Prototype for BioCoRE Notebook

How it works

•Produces and image of an equation

•Enter LaTeX commands in lower window, update to change image in upper window, publish to page when done

•LaTeX reference guide included

•Can add title and caption to equation image

BioCoRE Notebook Equation Editor

Equation Image (as produced by LaTeX) ❓

$$\left(\frac{2-2}{2+2} \right)$$

LaTeX Window (use to create equation)   <u>Reference</u>

\left(\frac{2-2}{2+2} \right)

Title: _____

Caption: _____

| Clear LaTeX | Update Equation | Publish |

This tool is based on the EMSL Collaboratory, Electronic Laboratory Notebook v. 5.0 Equation Editor:
http://collaboratory.emsl.pnl.gov

Their editor they attribute in part to the HotEqn IMGless Equation Viewer Applet: "HotEqn is a Java applet to view and display mathematical equations on the Web. The applet uses familiar LaTeX notation to code its equations."
http://www.esr.ruhr-uni-bochum.de/VCLab/software/HotEqn/HotEqn.html

The HotEqn project is part of the Virtual Control Lab 3.1 project:
http://www.esr.ruhr-uni-bochum.de/VCLab/index.html

We hope to incorporate these ideas into BioCoRE, with the consent of the above.

BioCoRE Notebook Table Editor

• Produces a table with text or numbers only

• Users selects row and column options, producing second screen where text or numbers are entered, then publishes table to main page

• Can add title and caption to table if desired

BioCoRE Notebook Table Editor
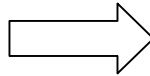
Note: Tables can hold text/numbers only.

Rows:
   • **Enter number of rows:** [   ]

   • **Row borders:** [▽]

Columns:
   • **Enter number of columns:** [   ]

   • **Column borders:** [▽]

Cell padding: [▽]

[**Clear**]   [**Make Table**]

[**?**]

BioCoRE Notebook Table Editor

Enter text or numbers only in table cells below.

Title: [   ]
Caption: [   ]

[**Clear**]   [**?**]   [**Publish**]
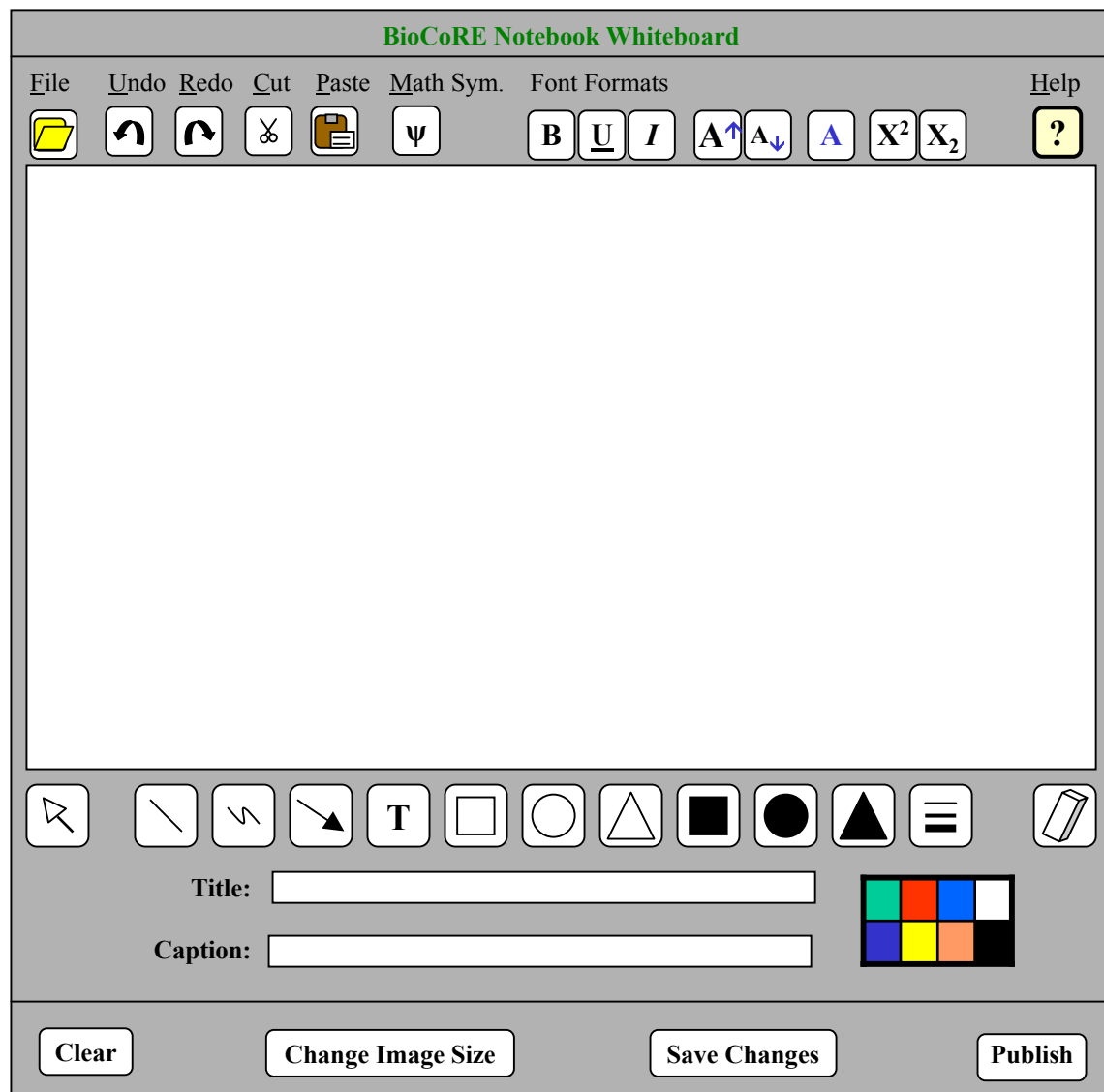
BioCoRE Notebook Whiteboard/Image Editor

How it works

•A basic whiteboard, that produces an image to be inserted on the main page

•Includes a set of math symbols for use in equations, etc.

•Allows input from electronic pens

•Can add title and caption to image

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BioCoRE Notebook

Configuration page for Notebook Editors & Image Size

Settings for: Joe Scientist
Last updated: 9/3/01

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Notebook Editors:

- Choose to use default or external editors by clicking checkboxes below
- To use an external program as an editor:
  - Enter the pathname and command line in the area indicated below
  - If the editor is not command line executable, you will have to save files from the editor into the BioFS and then insert them into the Notebook.
  - Save your configuration changes when done

Enter pathname and command line for editor below (help)

Text/File refs/URLs	☒ Default editor	☐ Ext. editor	
Whiteboard/Images	☒ Default editor	☐ Ext. editor	
Tables	☒ Default editor	☐ Ext. editor	
Video/Audio	No default editor	☐ Ext. editor	
Equations	Enter LaTeX text into default editor, then submit to Notebook page.		

Image Size for Whiteboard Editor:

- Choose image size for default image editor from default values, or enter height and width
- Note: You will have to restart any image presently in the editor if you change the canvas size

Default settings: ☒ [▽]

Height (in.): ☐ [ ]

Width (in.): ☐ [ ]

This page allows users to select an external editor (i.e. your preferred program) to use, or change the size of whiteboard images.

Reset to Editor Defaults   **Reset to Image Size Defaults**   **Save Changes**

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This part floats beside the page, like the Control Panel.

BioCoRE Notebook	**Page title: Summary of prototype progress since 8/15/01**			**Publication status: ●Private**
	Page owner: Joe Scientist	**Creation date: 9/3/01**	**Last modified: 9/3/01**	**Notarization date: 9/3/01**

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Prototype Development

The purpose of prototype development in the software creation process is to increase efficiency by showing end-users mock-ups of interfaces so that they can comment on issues such as needed functionality, understandability, etc. of the intended software product. To the right is a thumbnail of a blank BioCoRE page used as a template for prototyping new components. Click here to open a PowerPoint file of the template from the BioFS.

BioCoRE Prototype Template

Project: Actin   **BioCoRE**
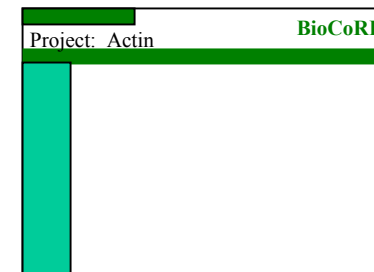
Notebook Prototype

A present target of prototyping is an electronic notebook for BioCoRE. The goal of an electronic notebook is to provide functionality similar to a paper notebook, plus some electronic advantages. An example is the EMSL Notebook (will open in a new browser window).

This is a sample Notebook page.

Sample Equation in the Notebook

$$\left(\frac{2 + 2}{2 - 2} \right)$$

Created using LaTeX editor

The BioCoRE Notebook is laid out using tables with different types of data put in different cells. You can make references to BioFS files and external URLs, insert equations and figures, etc., as a means of presenting your ideas to you collaborators.

◀ **Prior Page** | **Edit Page** | **Create New Page** | Delete Page | **Next Page** ▶