

- » 1. Give a summary of what you are doing
- 2. Explain how it fits into the overall iGEM project
- 3. Explain what your next steps (up to a month) are and your timeline for carrying these out
- 4. Let us know anything you don't understand, anything stopping your progress, any equipment/resources you need, etc

MAKE A NOTEBOOK ENTRY for this in preparation. In particular I will be interested in your timeline. A picture of your vision of how you fit into the project should be included as well.



- » Sequence View- a tool for visualizing DNA sequences: [wiki](#)
- » Planning new Clotho Interface
- » Learning Java Swing- graphic user interface design

Current Work



- » iGEM software tools are Clotho apps
- » Wetware team will use Clotho tools to make work easier

How it fits



Browser

Oligos

BIOFAB ID	Description
ca1000	Forward sequencing of pSB3C6
ca1057	ca984F/G00101 adapter
BBa_G00101	Reverse sequencing of pSB1A* plasmids
ca1001	Reverse sequencing of pSB3C6
ca999	Reverse sequencing of pSB1A2/pSB1A3
ca998	Forward Sequencing of pSB1A2/pSB1A3
ca1054	ca279/ca998 adapter
G00101	Reverse sequencing of pSB1A* plasmids
ca1056	ca604R/G00101 adapter
ca1055	ca792/ca998 adapter

Output - out x Sequence Checker x Sequence View x Tool App Browser x

Groovy Scripter

Format Editor

Lab Editor

P.A.D.S.

Spreadit Oligos

Spreadit Parts

Spreadit Features

Sequence Checker

Person Editor

Inventory Manager

BglBriK Digester

Registry Importer

Grapevine

Institution Editor

Collector Browser

PCR Predictor

Tool App Browser

Tutorial Wizard

Collection View

Sledrunner

Plugin Manager

Strain Editor

Configure Connection

Sequence View

BullTrowell

Spreadit Vectors

Startup Wizard

Next steps



Tabbed Panels displaying objects from local database, supporting drag/drop

The screenshot shows the Clotho software interface. The top window title is "Clotho" and the application name is "ClothoProject 201011082200". The interface is divided into several panels:

- Browser:** A table with tabs for "Plasmids", "Oligos", "Vectors", "Features", and "Parts". The "Plasmids" tab is active, showing a list of plasmids with their names and sequences.
- Sequence Checker:** A panel with tabs for "Select" and "Summary". The "Summary" tab is active, displaying a table of constructs and clones.
- Output - out:** A panel showing a chromatogram for a specific construct.

Plasmid Name	Sequence
pSBLAC3-BBa_R0040	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45170	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45100	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45004	ATGGAAGTTGTGAAGTCTT...
pSBLAC3-BBa_K197032	GAATTCGGGGCCCTCTAG...

Construct	Status	Clone	Status	Primer	Status	Trace File
pFAB1839	Pending	1	Pending	QB3809	Pending	pFAB1839.1_QB3809_2011-04-13_G0...
pFAB1840	Pending	2	Pending	QB3810	Pending	pFAB1839.1_QB3810_2011-04-13_G0...
		3	Pending			

The chromatogram shows a sequence trace for "pFAB1839.1_QB3809_2011-04-13_G01.ab1" and "pFAB1839.1_QB3810_2011-04-13_G07.ab1". The x-axis represents sequence position from 0 to 300. A yellow vertical bar highlights a specific region of the trace.

Apps will be displayed in tabs,
one for each app



The screenshot shows the Clotho software interface. The top menu bar includes 'File', 'Apps', 'Window', and 'Help'. The main window is titled 'ClothoProject 201011082200'. On the left, there is a 'Browser' panel with tabs for 'Plasmids', 'Oligos', 'Vectors', 'Features', and 'Parts'. Below these tabs is a table listing plasmid names and their sequences.

Plasmid Name	Sequence
pSBLAC3-BBa_R0040	GAATTCGGCGCCCTCTAG...
pSBLAC3-BBa_J45170	GAATTCGGCGCCCTCTAG...
pSBLAC3-BBa_J45100	GAATTCGGCGCCCTCTAG...
pSBLAC3-BBa_J45004	ATGGAAGTTGTGAAGTCTT...
pSBLAC3-BBa_K197032	GAATTCGGCGCCCTCTAG...

The main area is divided into two panes. The top pane is titled 'Sequence Checker' and contains a table with columns for 'Construct', 'Status', 'Clone', 'Status', 'Primer', 'Status', and 'Trace File'. The bottom pane displays a chromatogram for two files: 'pFAB1839.1_QB3809_2011-04-13_G01.ab1' and 'pFAB1839.1_QB3810_2011-04-13_G07.ab1'. The chromatogram shows a sequence of peaks with a yellow highlight on a specific peak.

Construct	Status	Clone	Status	Primer	Status	Trace File
pFAB1839	Pending	1	Pending	QB3809	Pending	pFAB1839.1_QB3809_2011-04-13_G0...
pFAB1840	Pending	2	Pending	QB3810	Pending	pFAB1839.1_QB3810_2011-04-13_G0...
		3	Pending			



clotho
ClothoProject 201011082200

File Apps Window Help

Browser

Plasmids Oligos Vectors Features Parts

Plasmid Name	Sequence
pSBLAC3-BBa_R0040	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45170	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45100	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J5004	ATGGAAGTTGTGAAGTCTT...
pSBLAC3-BBa_K1_0032	GAATTCGGGGCCCTCTAG...

Sequence Checker

Output - out

Construct	Status	Clone	Status	Primer	Status	Trace File
pFAB1839	Pending	1	Pending	QB3809	Pending	pFAB1839.1_QB3809_2011-04-13_G0...
pFAB1840	Pending	2	Pending	QB3810	Pending	pFAB1839.1_QB3810_2011-04-13_G0...
		3	Pending			

pFAB1839.1_QB3809_2011-04-13_G01.ab1

pFAB1839.1_QB3810_2011-04-13_G07.ab1

0 100 200 300 400 500 600 700 800 900 1000 100200300

If an app uses a new Clotho object, it will be automatically added to the local database

clotho
ClothoProject 201011082200
File Apps Window Help

Browser


Plasmid Name	Sequence
pSBLAC3-BBa_R0040	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45170	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45100	GAATTCGGGGCCCTCTAG...
pSBLAC3-BBa_J45004	ATGGAAGTTGTGAAGTCTT...
pSBLAC3-BBa_K197032	GAATTCGGGGCCCTCTAG...

Sequence Checker

Output - out

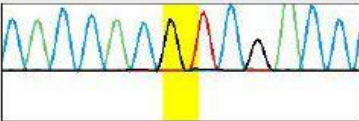
Construct	Status	Clone	Status	Primer	Status	Trace File
pFAB1839	Pending	1	Pending	QB3809	Pending	pFAB1839.1_QB3809_2011-04-13_G0...
pFAB1840	Pending	2	Pending	QB3810	Pending	pFAB1839.1_QB3810_2011-04-13_G0...
		3	Pending			

Search bar



pFAB1839.1_QB3809_2011-04-13_G01.ab1

pFAB1839.1_QB3810_2011-04-13_G07.ab1




- » 6/20-6/24: stabilize new IDE dashboard
 - > Revise dashboard/clotho tool plans based on feedback
- » 6/27-7/1: begin implementing new ClothoTool format in Sequence View + drag/drop inventory tab
- » 7/4-7/15: functionalize/stabilize drag/drop, incorporate into Spectacles

Timeline



- » Feedback
- » Suggestions
- » Guidance

What I need?

