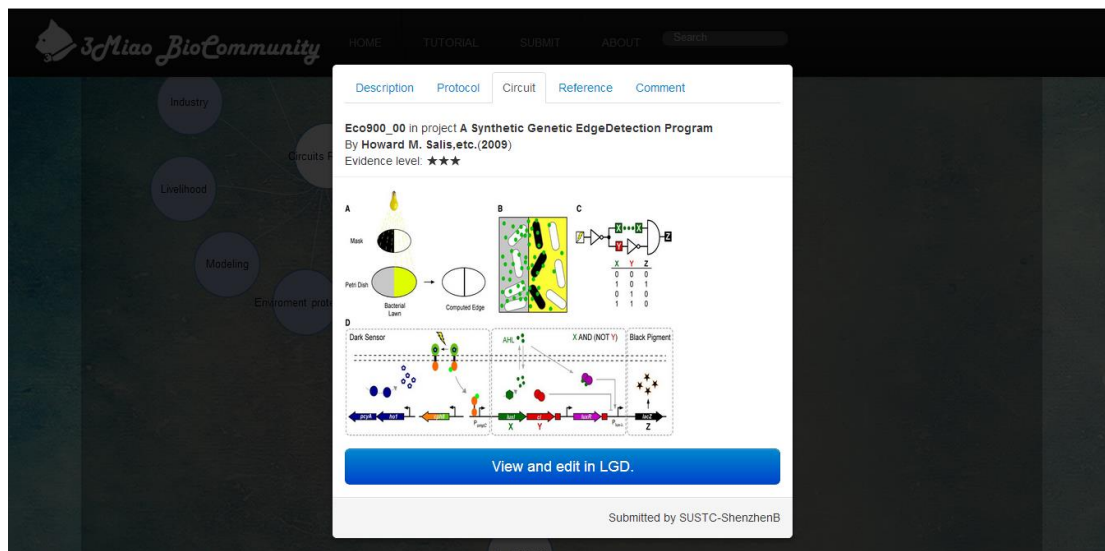


Logical genetic designer

Short for logical genetic designer, LGD is an online computer aided genetic circuit designer. LGD has two major features: 1, it is online! Unlike other computer aided graphical designing program such as TinkerCell, Our LGD is an online software. 2, it is integrated into the Registry of Standard Genetic Circuit. Every project in the Registry of Standard Genetic Circuit comes with a LGD design, users can make their own modification and improvement in the original design.

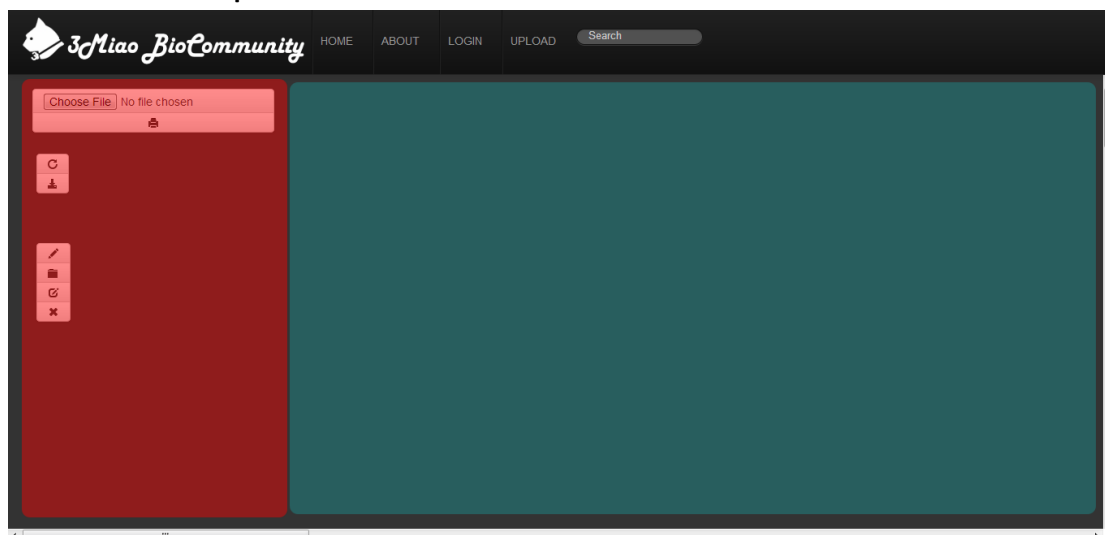
How to access LGD

LGD can be access from the Registry of Standard Genetic Circuit. When you go to the “circuit” page of a project, click the “View and edit in LGD”



The screenshot shows the 3Miao BioCommunity website interface. The main content area displays a project titled "Eco900_00 in project A Synthetic Genetic EdgeDetection Program" by Howard M. Salis, etc. (2009). The project has an evidence level of three stars. Below the title, there are four panels: A (Mask and Petri Dish), B (Bacterial Lawn and Computed Edge), C (Circuit diagram and truth table), and D (Dark Sensor, AHL, X AND (NOT Y), and Black Pigment). A blue button labeled "View and edit in LGD." is prominently displayed at the bottom of the project details. The page is submitted by SUSTC-ShenzhenB.

LGD interface example



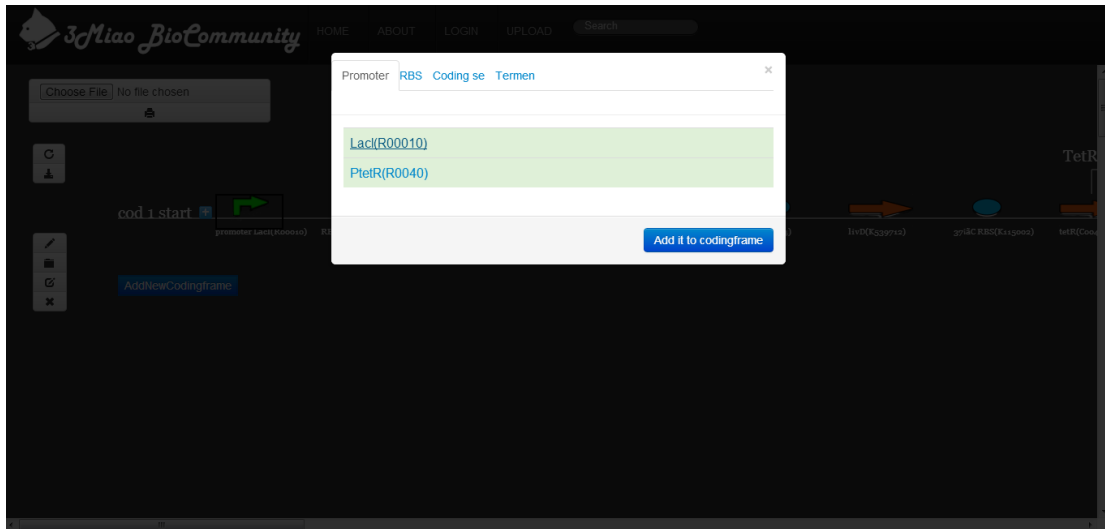
The screenshot shows the LGD interface. On the left side, there is a control panel with a "Choose File" button, a "No file chosen" message, and several icons for file management. The main area is a large, empty coding frame with a dark green background, ready for editing a genetic circuit.

LGD is constitute with the control panel and the coding frame panel on the left.

How to use LGD

Let take the project “A Synthetic Genetic EdgeDetection Program (Eco900_00)” for example, if we want to add a new coding frame in the existing gene circuit just click “Add new codingframe” button. Then you will get a new coding framing:

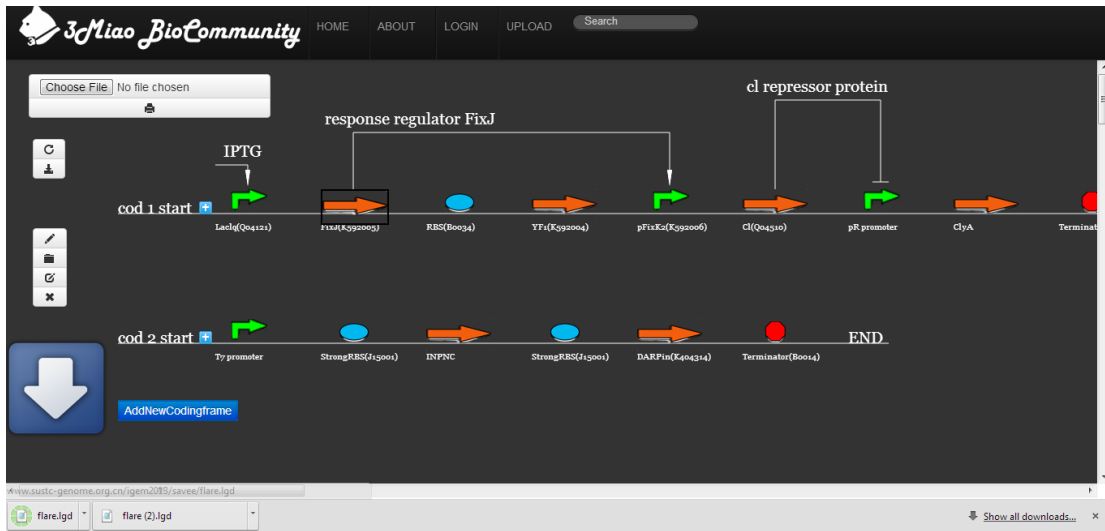
Adding a part by clicking



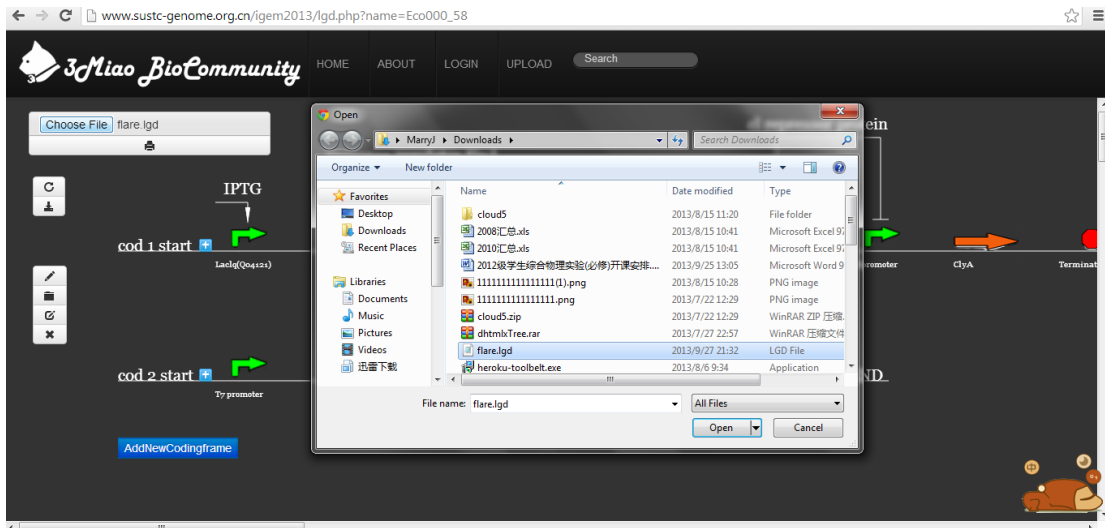
Select the biobrick type you want, and add to the coding frame.



Other features: you can move the entire coding frame to any position:



Save you project to your local disk:



Have fun!