Motivation
A synthetic biology project design usually involves two steps. First, sketching a biocircuit draft; second, searching in partsregistry database to find out proper BioBricks. Our team decided to help people in this process.

The primary goal of BioDesign is to provide a standardized synthetic biology mapping software for convenient academic exchanges, and BioSearch is developed for convenient BioBrick searching. Both of them are developed for iPhone, which is widely used and portable.

Features
1. Standardization:
   Standardized images of BioBricks, molecules and regulations (arrows) for academic communication.
   (Images listed on the right.)
2. Prepared Reactions:
   Provides several kinds of reaction models to be chose from.
3. User-friendliness:
   Simple interfaces, easy to grasp.
   Tutorial video provided.
4. Share Function:
   E-mail part for quick idea change.
   Facilitate communication and save time by using auto-generated e-mails.

Future Plan
1. Ipad version and android version.
2. Modeling.
3. Merge BioDesign with BioSearch:
   Import data from BioSearch to BioDesign to do biochemical reaction simulation.

User Review
After finishing the development of BioSearch, we released Beta version in Asia. We got more than 40 users in less than one week time, and we made a survey among them.

The figure shows that more than 60% of the users thought our software is both functional and beautiful. Now that BioSearch is already launched on App Store, please download and try it. We believe you will also love it.

Acknowledgment:
BioSearch is a result of our academic communications with several fund and provide us with precious suggestions and advice.
1. GEM: supports us to have academic communications with several fund and provide us with precious suggestions and advice.
2. SJTU: provide major fund and suggestions in our development.
3. China University of Science and Technology: provide fund and suggestions in our development.
4. East China University of Science and Technology: provide financial support in our development.
5. University of Science and Technology of China: provide financial support in our development.
6. Zhejiang University: provide financial support in our development.

User Comments
Rachel J.K.
Very handy tool! Bought professional work to everyday life...

Karenlgo
BioSearch is a clear and concise user interface and its search function is quiet amazing! The results of fuzzy search are really useful and even well arranged. I can also visit partsregistry from hyperlinks. It will be better if an iPad version is provided.

jaquan_good from Tianjin
I looked over biosparts by category. It is easy to use and the tutorial is very helpful.

Adanjiyu from SJTU-BioX-Shanghai
I’m very excited to see such a pityful user interface. I searched several vis-operon parts.