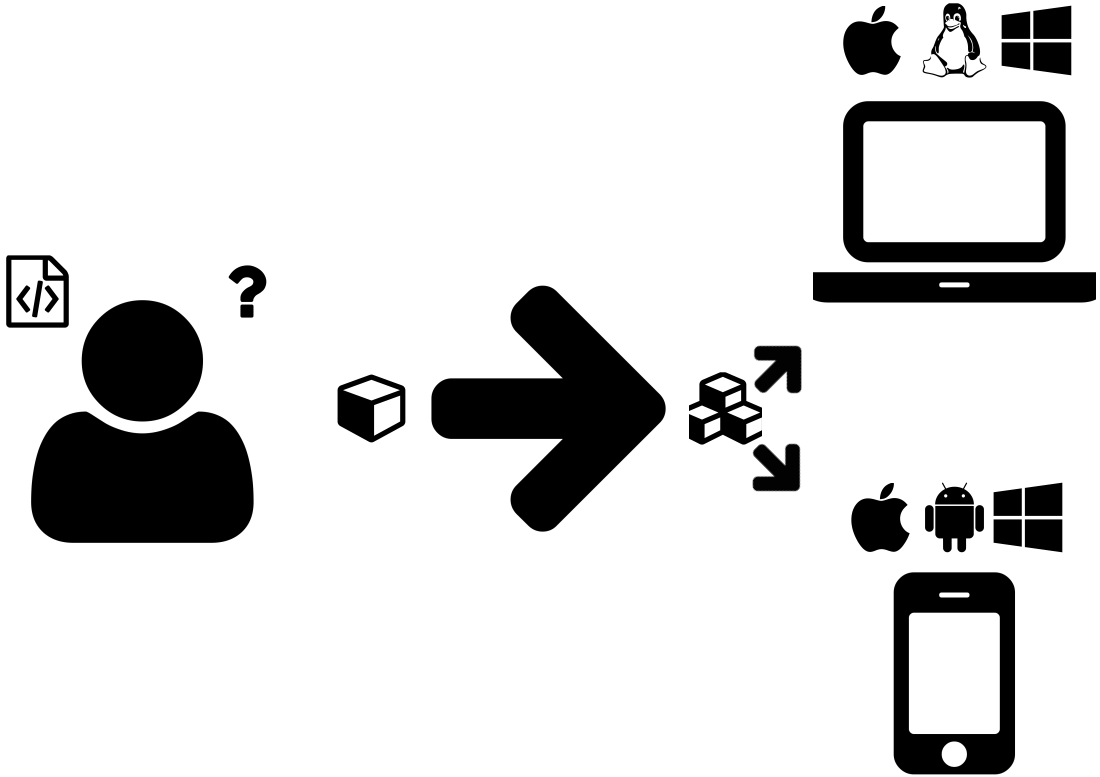
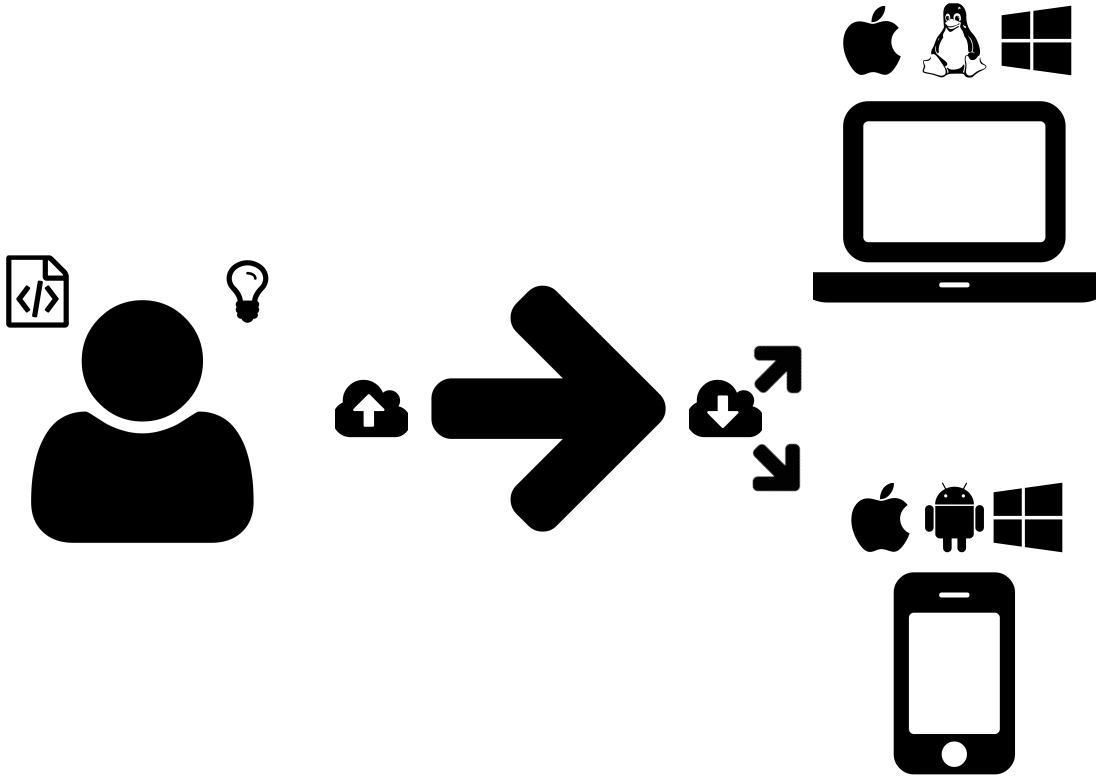
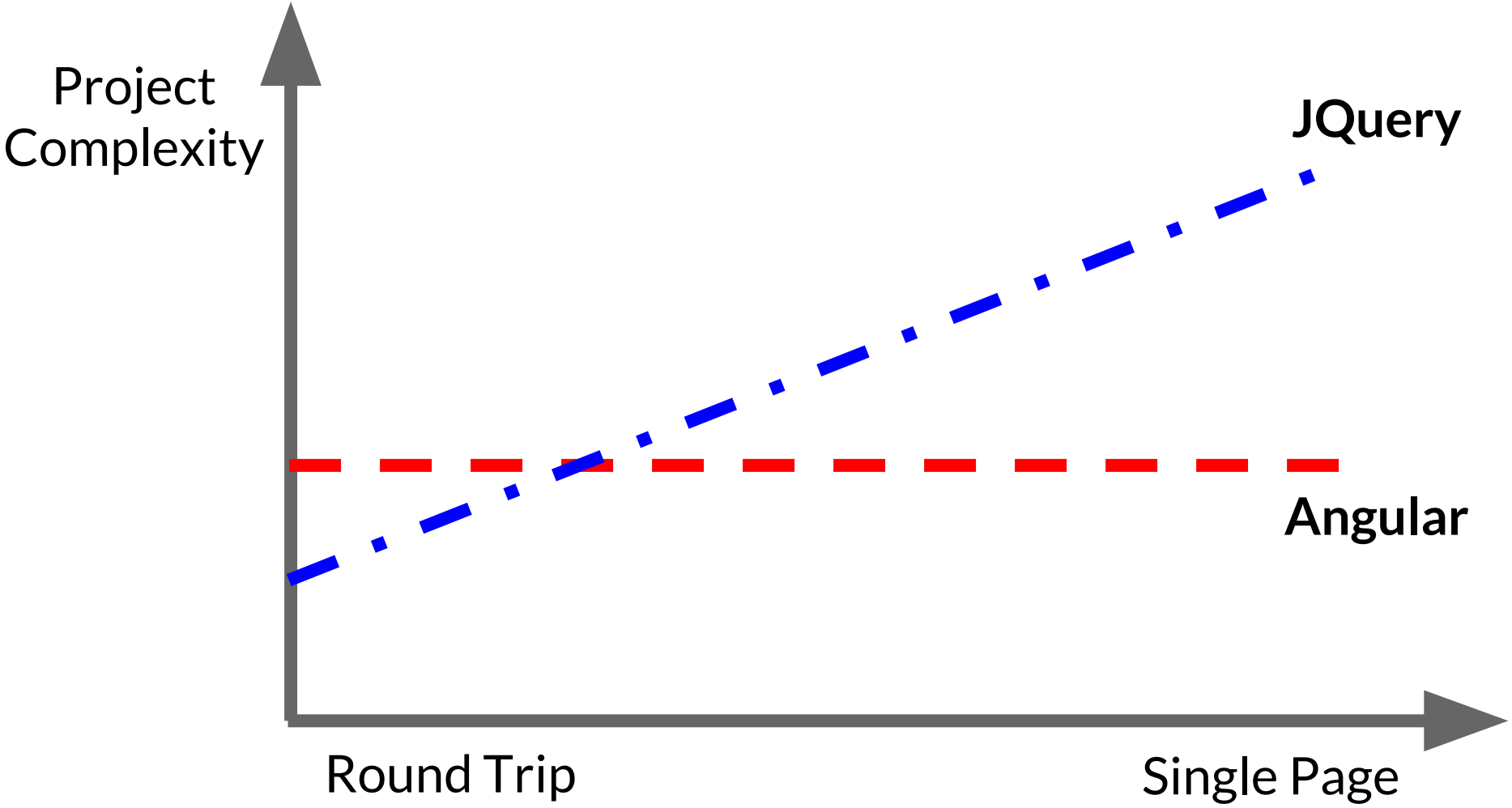
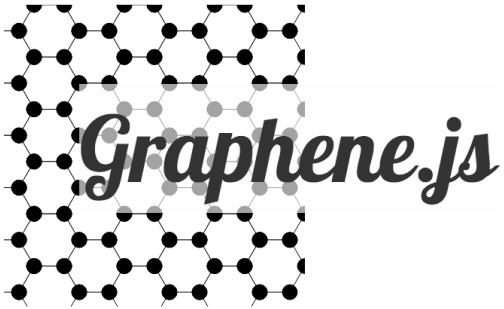
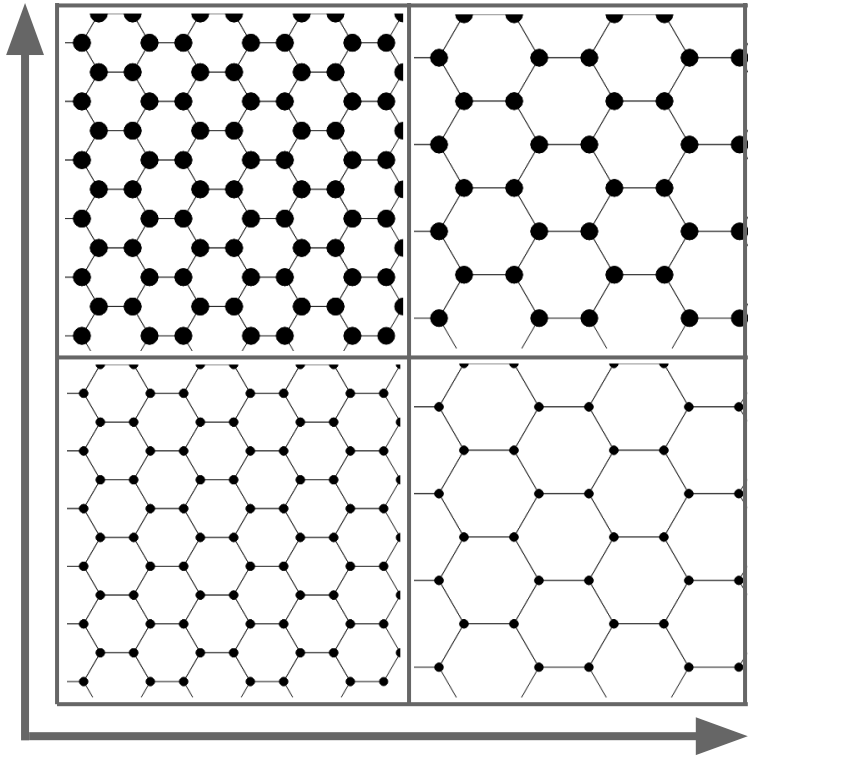




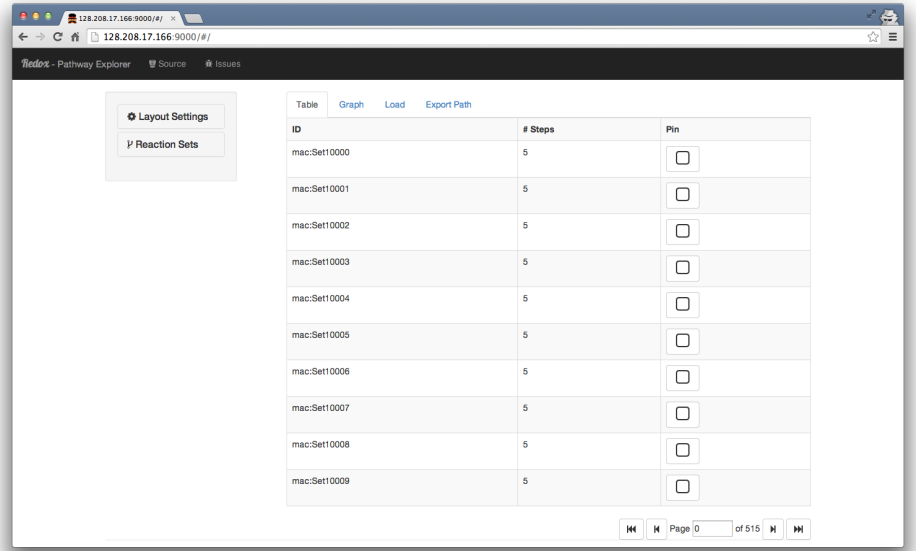

Project
Complexity
JQuery
Angular
Round Trip
Single Page



(A)



(B)


128.208.17.166:9000/#/
128.208.17.166:9000/#/
Redox - Pathway Explorer
Source
Issues
Layout Settings
Reaction Sets
Table
Graph
Load
Export Path
ID
Steps
Pin
mac:Set10000
mac:Set10001
mac:Set10002
mac:Set10003
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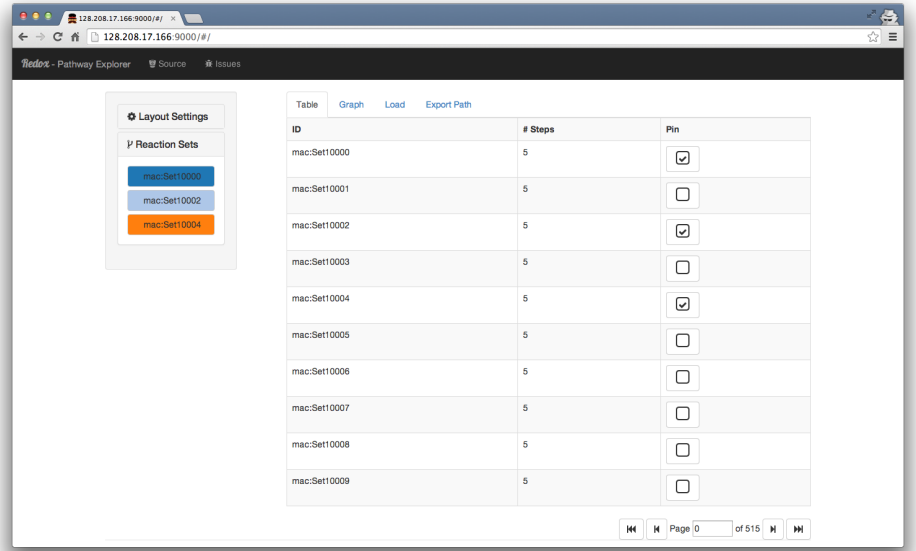
5
Page 0 of 515

(A)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Layout Settings
Reaction Sets
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Table
Graph
Load
Export Path
ID
Steps
Pin
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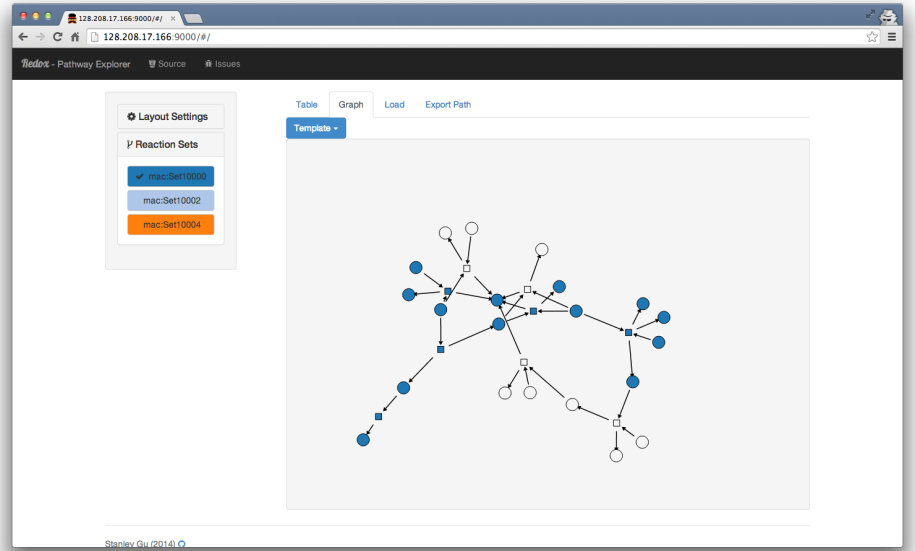
5
Page 0 of 515

(B)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Redox - Pathway Explorer
Source
Issues
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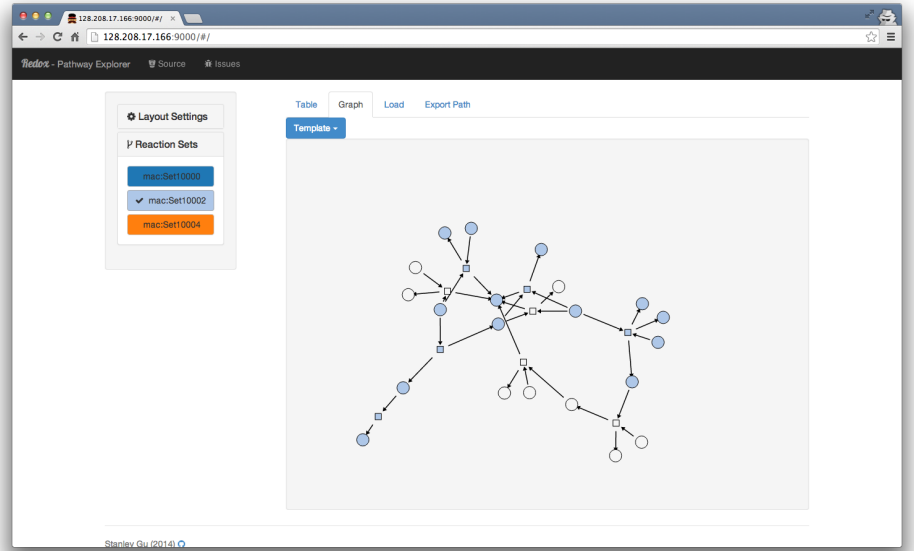
mac:Set10002
mac:Set10004
Table
Graph
Load
Export Path
Template
Stanley Gu (2014)

(A)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Redox - Pathway Explorer
Source
Issues
Layout Settings
Reaction Sets
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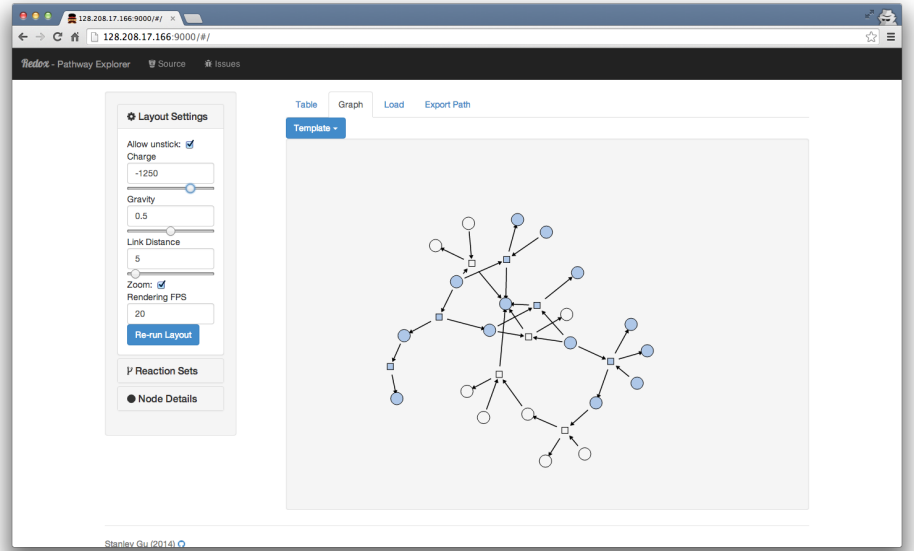
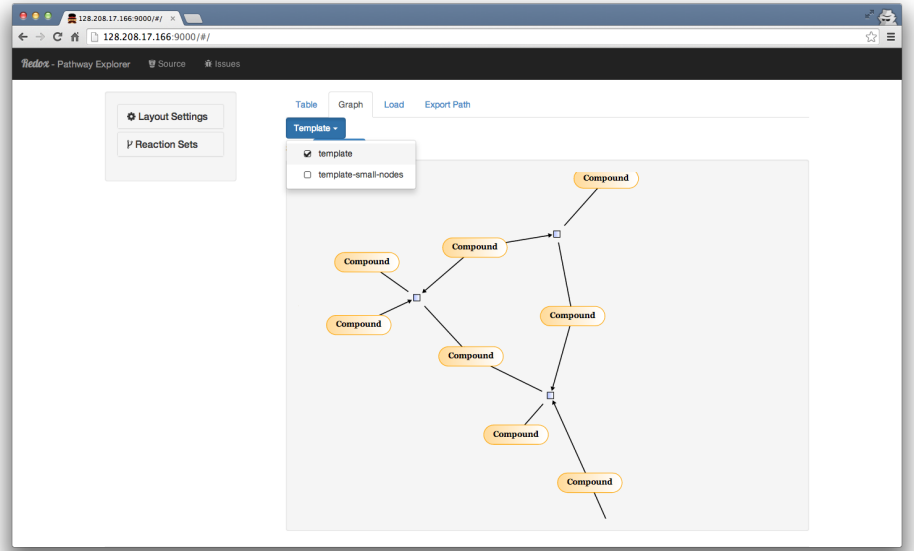
mac:Set10004
Table
Graph
Load
Export Path
Template
Stanley Gu (2014)

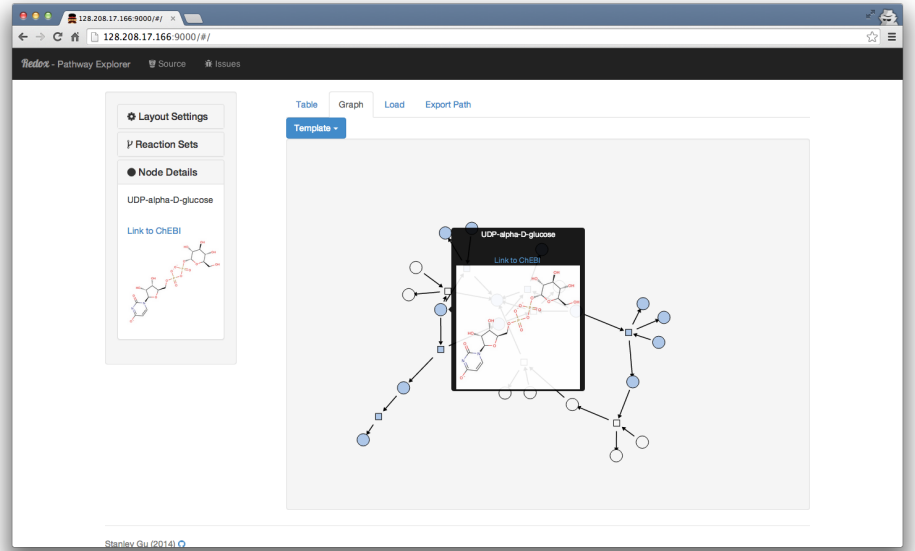
(B)


128.208.17.166:9000/#/
Redox - Pathway Explorer
Source
Issues
Layout Settings
Allow unstick:
Charge
-1250
Gravity
0.5
Link Distance
5
Zoom:
Rendering FPS
20
Re-run Layout
Reaction Sets
Node Details
Table
Graph
Load
Export Path
Template
Stanley Gu (2014)

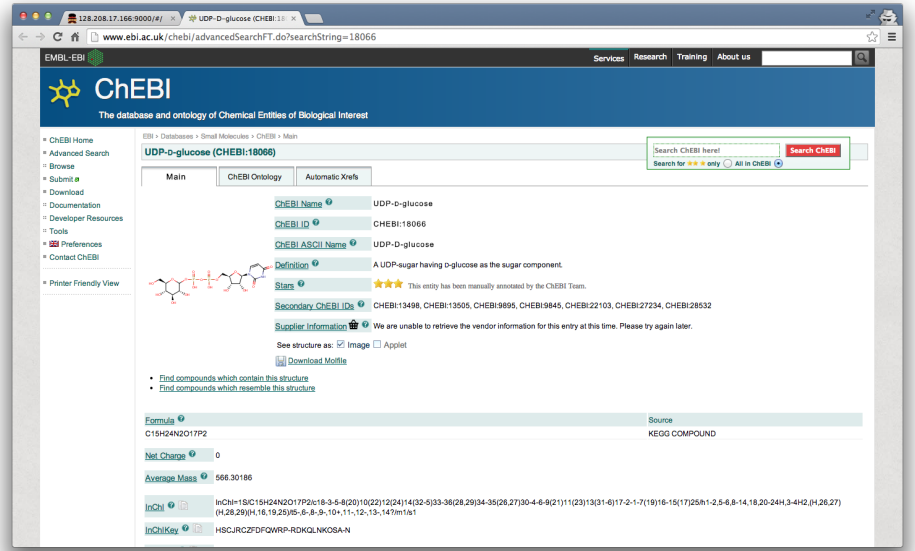
(A)


128.208.17.166:9000/#/
Redox - Pathway Explorer
Source
Issues
Layout Settings
Reaction Sets
Table
Graph
Load
Export Path
Template
template
template-small-nodes
Compound
Compound
Compound
Compound
Compound
Compound
Compound
Compound

(B)


128.208.17.166:9000/#/
Redox - Pathway Explorer
Source
Issues
Layout Settings
Reaction Sets
Node Details
UDP-alpha-D-glucose
Link to ChEBI
Table
Graph
Load
Export Path
Template
UDP-alpha-D-glucose
Link to ChEBI
Stanley Gu (2014)

(A)


128.208.17.166:9000/#/
UDP-D-glucose (CHEBI:18
www.ebi.ac.uk/chebi/advancedSearchFT.do?searchString=18066
EMBL-EBI
Services
Research
Training
About us
ChEBI
The database and ontology of Chemical Entities of Biological Interest
ChEBI Home
Advanced Search
Browse
Submit
Download
Documentation
Developer Resources
Tools
Preferences
Contact ChEBI
Printer Friendly View
EBI > Databases > Small Molecules > ChEBI > Main
UDP-D-glucose (CHEBI:18066)
Search ChEBI here!
Search ChEBI
Search for only
All in ChEBI
Main
ChEBI Ontology
Automatic Xrefs
ChEBI Name
UDP-D-glucose
ChEBI ID
CHEBI:18066
ChEBI ASCII Name
UDP-D-glucose
Definition
A UDP-sugar having D-glucose as the sugar component.
Stars
This entity has been manually annotated by the ChEBI Team.
Secondary ChEBI IDs
CHEBI:13498, CHEBI:13505, CHEBI:9895, CHEBI:9845, CHEBI:22103, CHEBI:27234, CHEBI:28532
Supplier Information
We are unable to retrieve the vendor information for this entry at this time. Please try again later.
See structure as:
Image
Applet
Download Molfile
Find compounds which contain this structure
Find compounds which resemble this structure
Formula
C15H24N2O17P2
Source
KEGG COMPOUND
Net Charge
0
Average Mass
566.30186
InChI
InChI=1S/C15H24N2O17P2/c18-3-5-8(20)10(22)12(24)14(32-5)33-36(28,29)34-35(26,27)30-4-6-9(21)11(23)13(31-6)17-2-1-7(19)16-15(17)25/h1-2,5-6,8-14,18,20-24H,3-4H2,(H,26,27)(H,28,29)(H,16,19,25)/t5-,6-,8-,9-,10+,11-,12-,13-,14?/m1/s1
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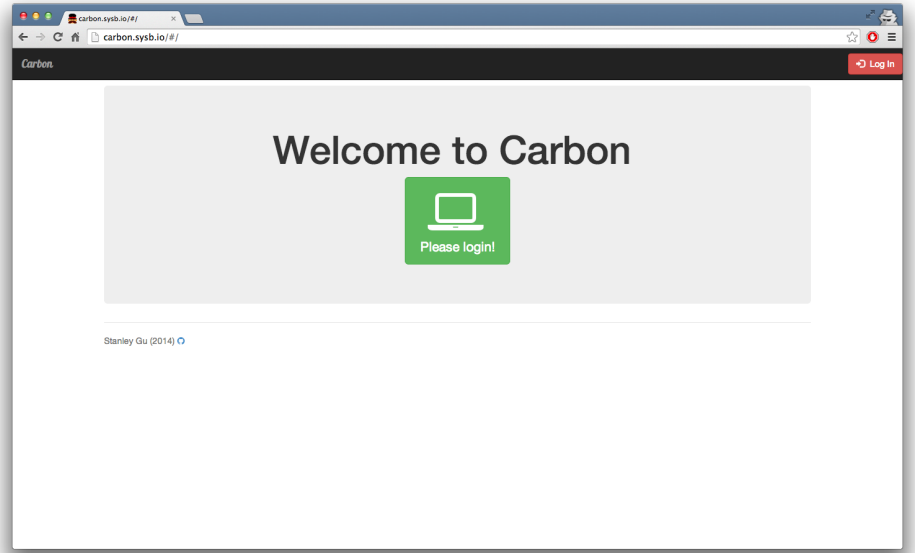
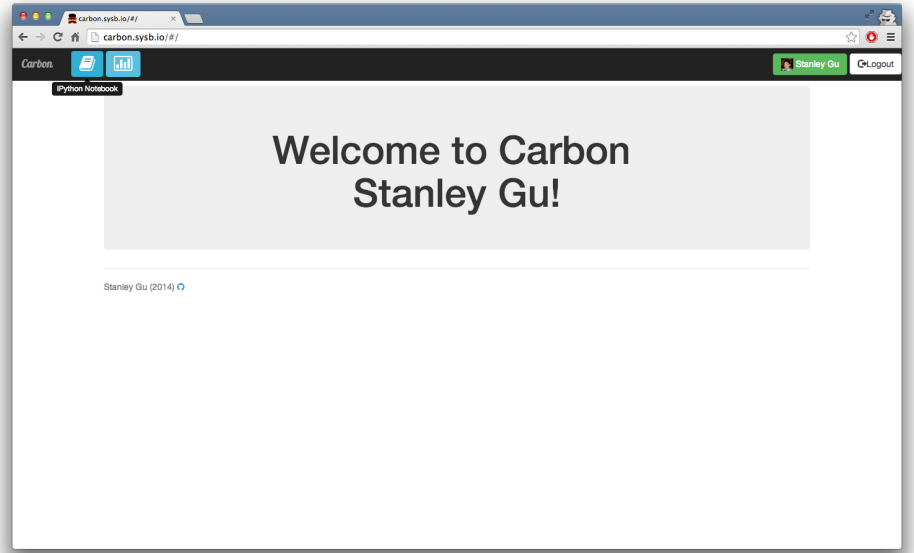
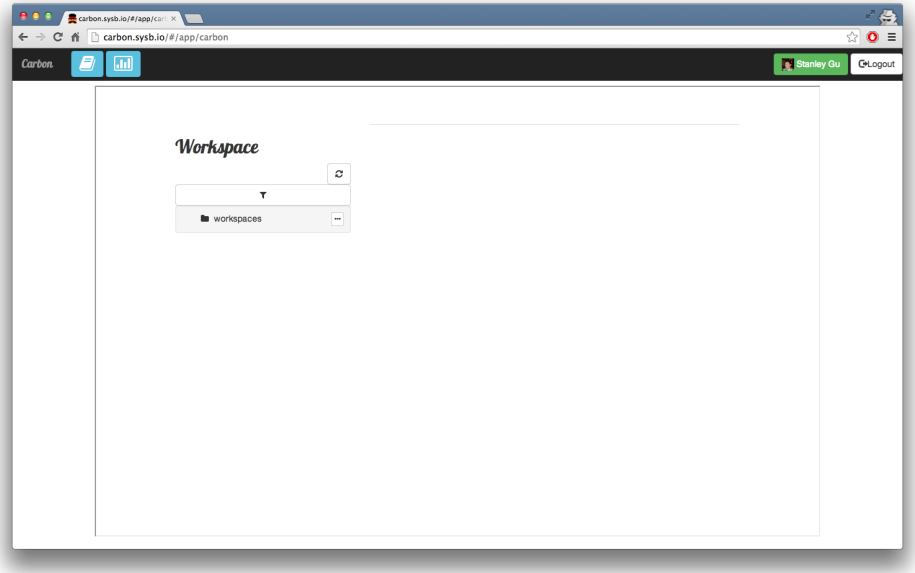
(B)


carbon.sysb.io/#/
Carbon
Log In
Welcome to Carbon
Please login!
Stanley Gu (2014)

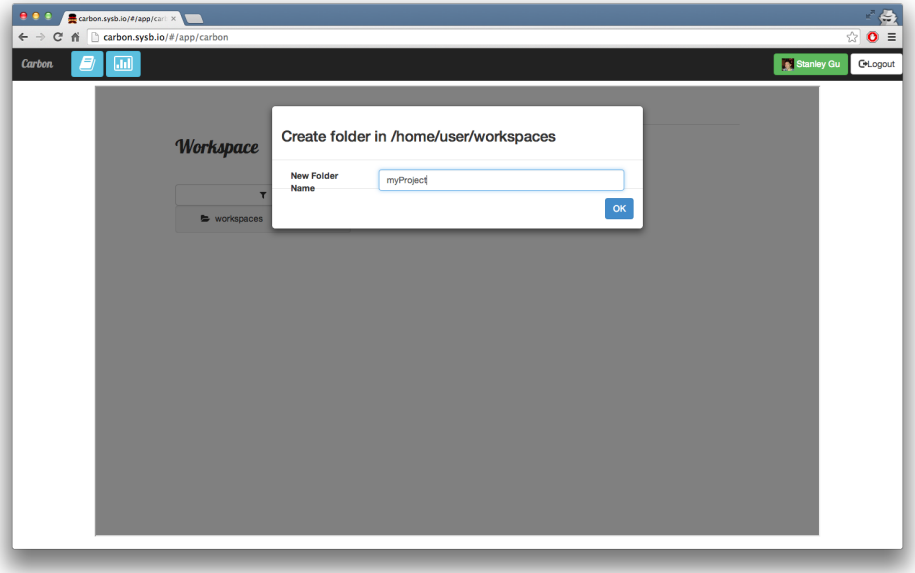
(A)


carbon.sysb.io/#/
Carbon
IPython Notebook
Stanley Gu
Logout
Welcome to Carbon
Stanley Gu!
Stanley Gu (2014)

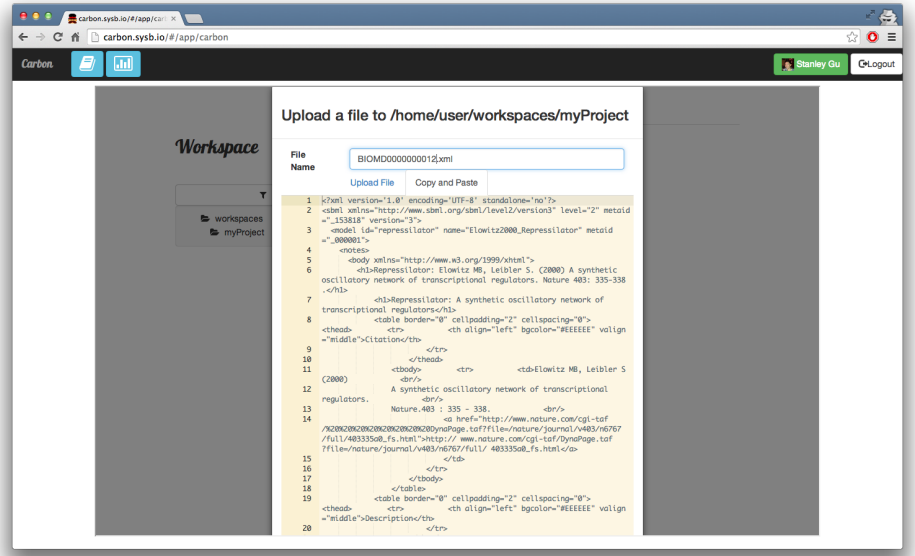
(B)


carbon.sysb.io/#/app/carbon
Carbon
Stanley Gu
Logout
Workspace
workspaces

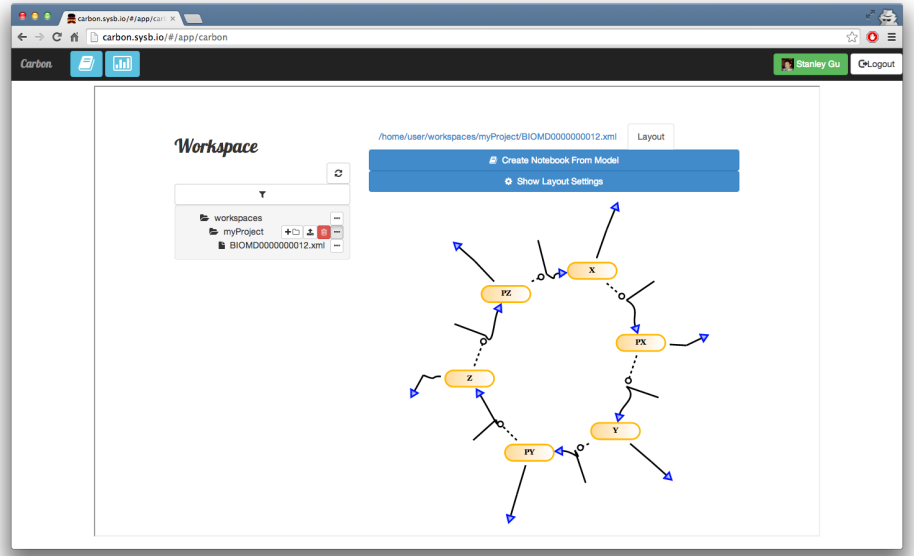
(A)


carbon.sysb.io/#/app/carbon
Carbon
Stanley Gu
Logout
Workspace
workspaces
Create folder in /home/user/workspaces
New Folder Name
myProject
OK

(B)


carbon.sysb.io/#/app/carbon
Carbon
Stanley Gu
Logout
Workspace
workspaces
myProject
Upload a file to /home/user/workspaces/myProject
File Name
BIOMD0000000012.xml
Upload File
Copy and Paste

(A)


carbon.sysb.io/#/app/carbon
Carbon
Stanley Gu
Logout
Workspace
workspaces
myProject
BIOMD0000000012.xml
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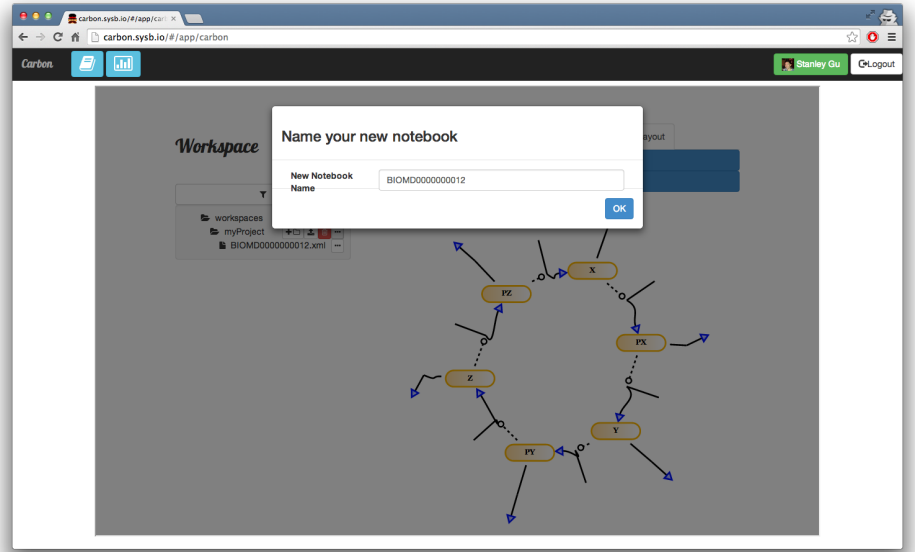
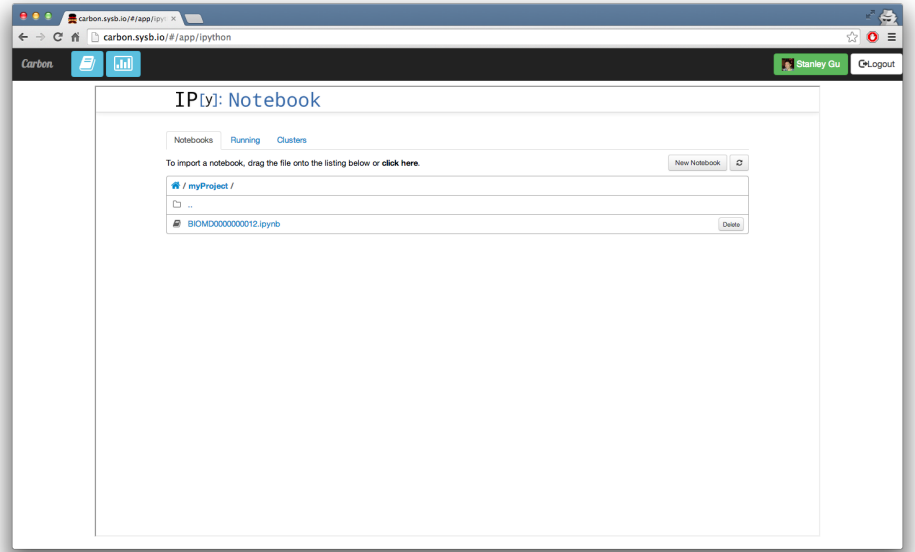
Layout
Create Notebook From Model
Show Layout Settings
X
PZ
PX
Z
Y
PY

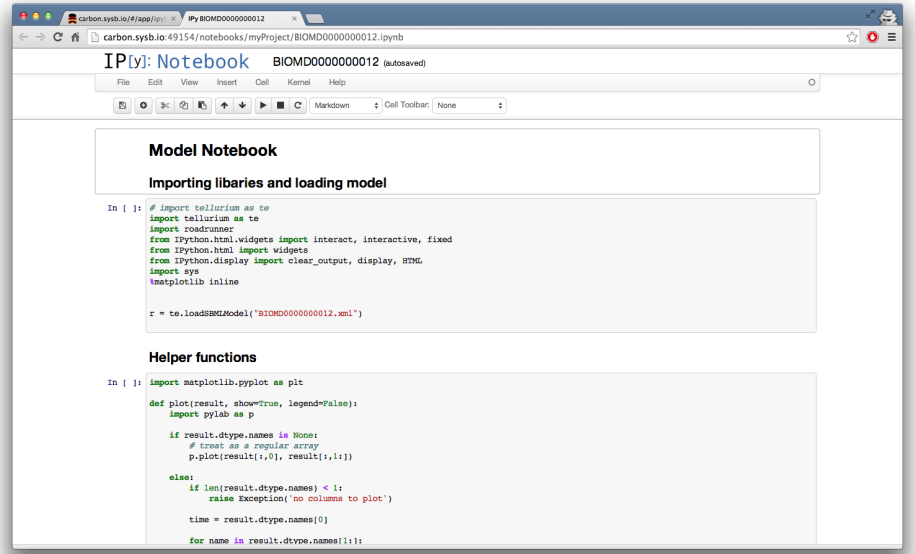
(B)

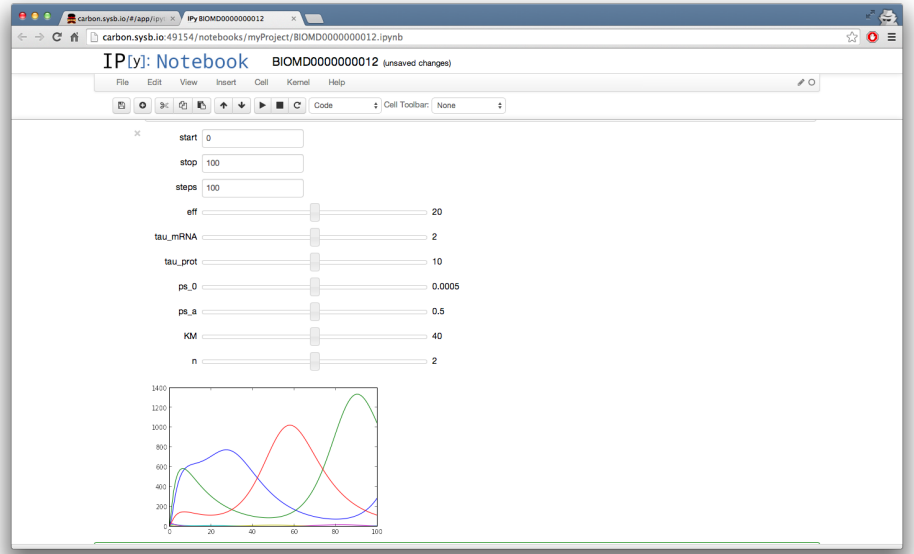

carbon.sysb.io/#/app/carbon
Carbon
Stanley Gu
Logout
Workspace
Name your new notebook
New Notebook Name
BIOMD0000000012
OK
workspaces
myProject
BIOMD0000000012.xml
X
PZ
PX
Z
Y
PY

(A)


carbon.sysb.io/#/app/ipython
Carbon
Stanley Gu
Logout
IP[y]: Notebook
Notebooks
Running
Clusters
To import a notebook, drag the file onto the listing below or click here.
New Notebook
/ myProject /
..
BIOMD0000000012.ipynb
Delete

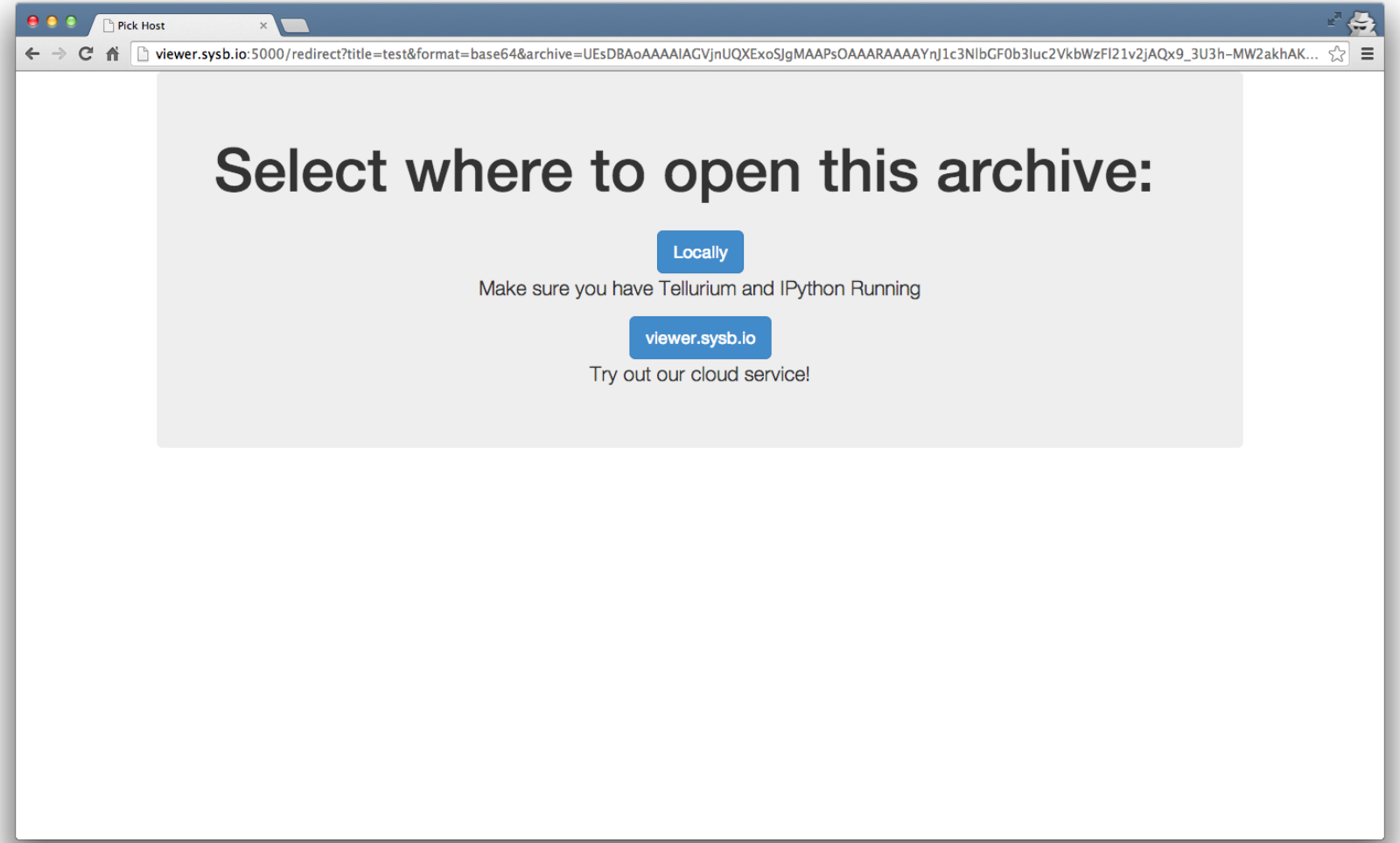
(B)

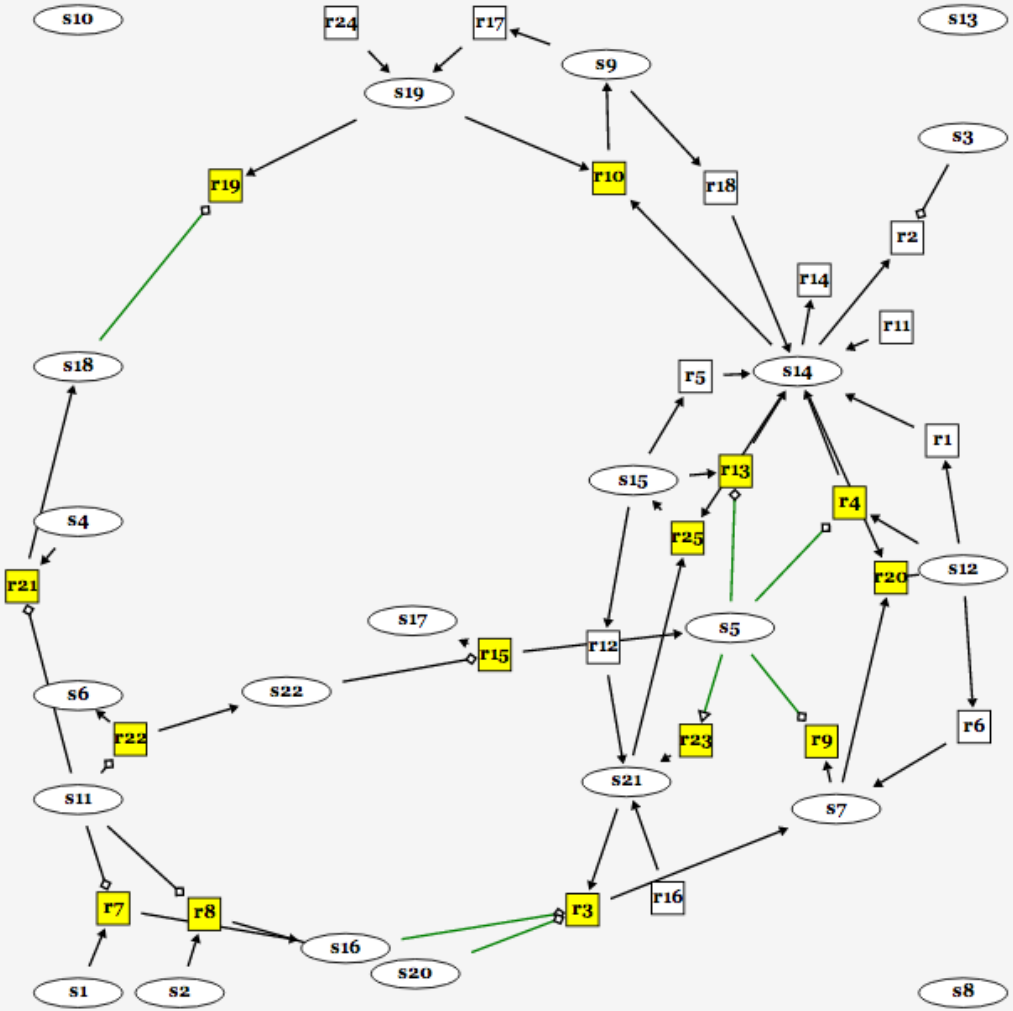

carbon.sysb.io/#/app/ipy
IPy BIOMD0000000012
carbon.sysb.io:49154/notebooks/myProject/BIOMD0000000012.ipynb
IP[y]: Notebook
BIOMD0000000012 (autosaved)
File Edit View Insert Cell Kernel Help
Markdown
Cell Toolbar: None
Model Notebook
Importing libaries and loading model
In [ ]:
# import tellurium as te
import tellurium as te
import roadrunner
from IPython.html.widgets import interact, interactive, fixed
from IPython.html import widgets
from IPython.display import clear_output, display, HTML
import sys
%matplotlib inline
r = te.loadSBMLModel("BIOMD0000000012.xml")
Helper functions
In [ ]:
import matplotlib.pyplot as plt
def plot(result, show=True, legend=False):
import pylab as p
if result.dtype.names is None:
# treat as a regular array
p.plot(result[:,0], result[:,1:])
else:
if len(result.dtype.names) < 1:
raise Exception('no columns to plot')
time = result.dtype.names[0]
for name in result.dtype.names[1::]:


carbon.sysb.io/#/app/ipy
IPy BIOMD0000000012
carbon.sysb.io:49154/notebooks/myProject/BIOMD0000000012.ipynb
IP[y]: Notebook
BIOMD0000000012 (unsaved changes)
File Edit View Insert Cell Kernel Help
Code
Cell Toolbar: None
start 0
stop 100
steps 100
eff 20
tau_mRNA 2
tau_prot 10
ps_0 0.0005
ps_a 0.5
KM 40
n 2
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100

(A)

(B)


Pick Host
viewer.sysb.io:5000/redirect?title=test&format=base64&archive=UEsDBAoAAAAIAGVjnUQXExoSJgMAAPsOAAARAAAAYnJ1c3NlbGF0b3luc2VkbWzFl21v2jAQx9_3U3h-MW2akhAK...
Select where to open this archive:
Locally
Make sure you have Tellurium and IPython Running
viewer.sysb.io
Try out our cloud service!


s10
r24
r17
s13
s19
s9
s3
r19
r10
r18
r2
r14
r11
s18
r5
s14
r1
s15
r13
r4
s4
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r15
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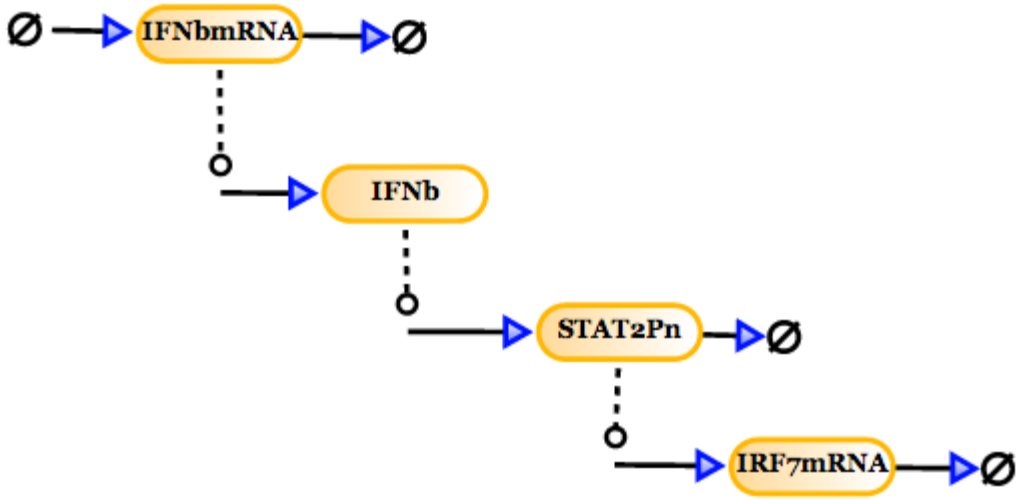
s22
r22
r23
r9
r6
s21
s11
s7
r7
r8
r3
r16
s16
s20
s1
s2
s8

$$\frac{dx}{dt} = r_1 e^{-b_1 t} - k_1 x(t)$$

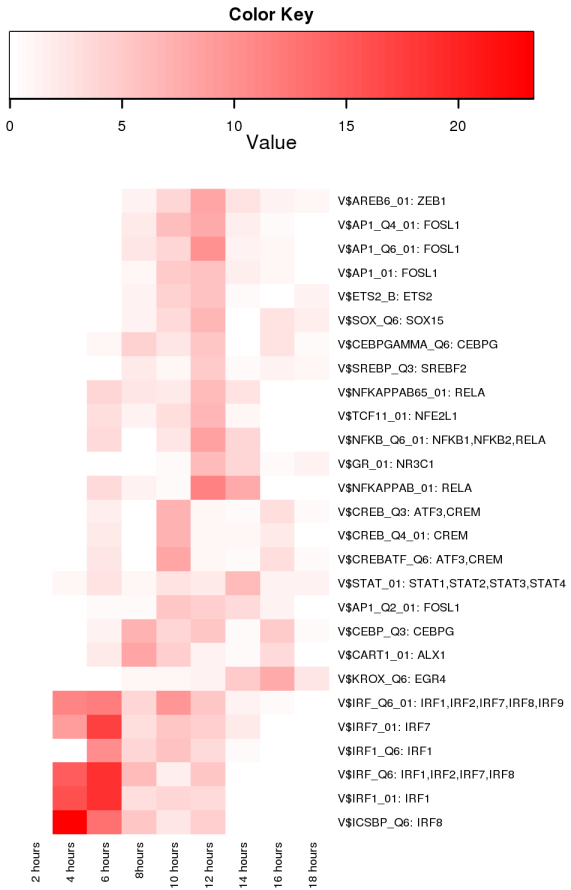
$$\frac{dy}{dt} = r_2 \frac{x(t)}{K_2 + x(t)}$$

$$\frac{dz}{dt} = r_3 \frac{y(t)}{K_3 + y(t)} - k_3 z(t)$$

$$\frac{ds}{dt} = r_4 e^{-b_4 t} z(t) - k_4 s(t)$$



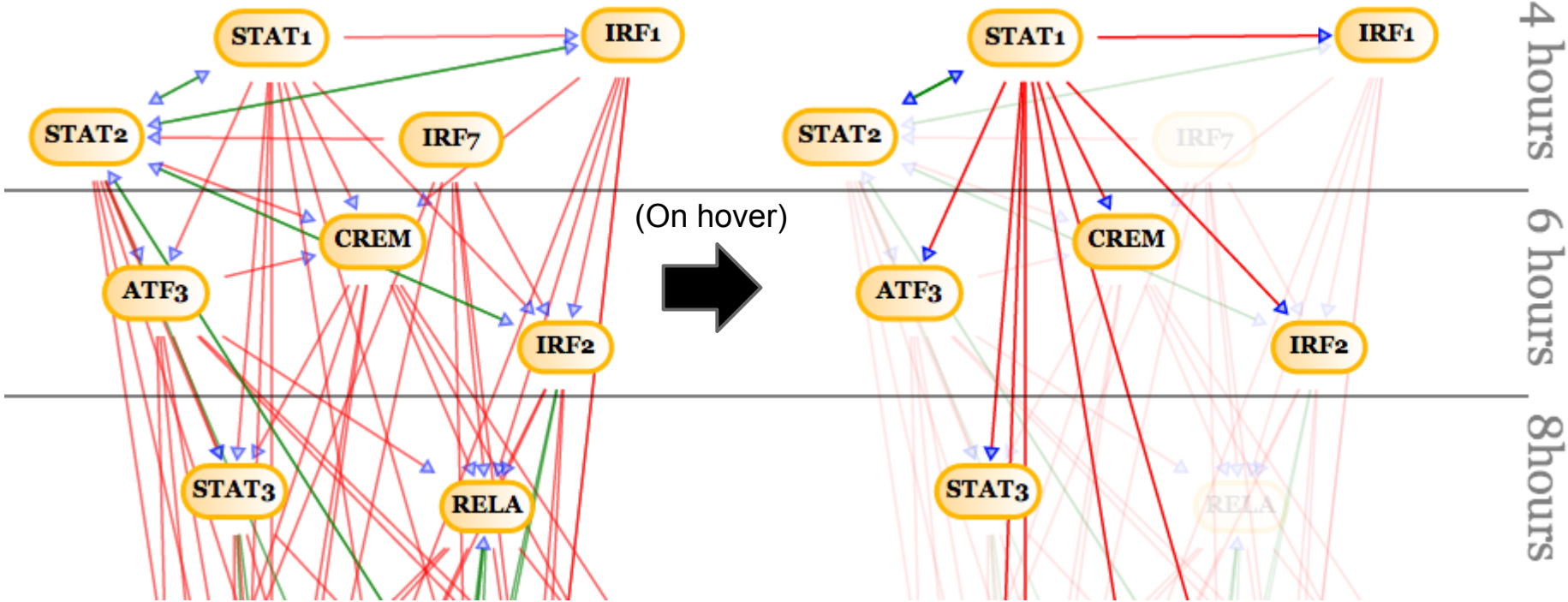

TiDAL (TIme-Dependent A
https://slapp04.mssm.edu/tidal/#
TiDAL
TiDAL (TIme-Dependent Activity Linker) V.1.0.1
Take the tour
TiDAL generates a transcription factor regulatory network from time-series gene expression data. TiDAL identifies transcription factors active at each time-point, and infers and visualizes the underlying temporal regulatory cascade. [more...]
Powered by InSilico DB, this tool can directly load for analysis more than 2K high quality curated datasets from the public domain. Disclaimer: while this web tool supports DE gene analysis of any qualifying microarray datasets, the TF enrichment is currently limited to human datasets.
1. Time-series gene expression data for analysis: [?] [Load sample]
Load data
2. Regulatory region definitions [?] Human (hg19) 2kb around TSS, conserved with mouse (mm9)
3. Maximum number of regulators for each gene [?] all
4. False Discovery Rate (FDR) [?] 0.05
Generate network
Reset form
Encountered a problem or have a suggestion? Contact us


Color Key
0
5
10
15
20
Value
V$AREB6_01: ZEB1
V$AP1_Q4_01: FOSL1
V$AP1_Q6_01: FOSL1
V$AP1_01: FOSL1
V$ETS2_B: ETS2
V$SOX_Q6: SOX15
V$CEBPGAMMA_Q6: CEBPG
V$SREBP_Q3: SREBF2
V$NFKAPPAB65_01: RELA
V$TCF11_01: NFE2L1
V$NFKB_Q6_01: NFKB1,NFKB2,RELA
V$GR_01: NR3C1
V$NFKAPPAB_01: RELA
V$CREB_Q3: ATF3,CREM
V$CREB_Q4_01: CREM
V$CREBATF_Q6: ATF3,CREM
V$STAT_01: STAT1,STAT2,STAT3,STAT4
V$AP1_Q2_01: FOSL1
V$CEBP_Q3: CEBPG
V$CART1_01: ALX1
V$KROX_Q6: EGR4
V$IRF_Q6_01: IRF1,IRF2,IRF7,IRF8,IRF9
V$IRF7_01: IRF7
V$IRF1_Q6: IRF1
V$IRF_Q6: IRF1,IRF2,IRF7,IRF8
V$IRF1_01: IRF1
V$ICSBP_Q6: IRF8
2 hours
4 hours
6 hours
8hours
10 hours
12 hours
14 hours
16 hours
18 hours

Show 10 entries Search:

		2 hours	4 hours	6 hours	8hours	10 hours	12 hours	14 hours	16 hours	18 hours
V$AP1_01	FOSL1	1	9.43e-01	7.13e-01	4.16e-01	7e-03	4.18e-03	2.16e-01	4.18e-01	8.41e-01
V$AP1_Q2_01	FOSL1	1	1e+00	6.41e-01	5.5e-01	5.42e-03	1.08e-02	3.05e-02	3.05e-01	1e+00
V$AP1_Q4_01	FOSL1	1	8.78e-01	8.41e-01	1.25e-01	2.46e-03	4.17e-04	2.21e-01	5.2e-01	8.37e-01
V$AP1_Q6_01	FOSL1	1	9.57e-01	7.07e-01	8.4e-02	1.89e-02	5.15e-05	2.95e-01	4.52e-01	9.68e-01
V$AREB6_01	ZEB1	1	9.56e-01	9.85e-01	2.49e-01	1.92e-02	2.67e-04	5.6e-02	2.98e-01	3.56e-01
V$CART1_01	ALX1	1	9.94e-01	1.46e-01	2.32e-04	9.11e-03	2.81e-01	6.12e-01	2.71e-02	9.75e-01
V$CEBP_Q3	CEBPG	1	9.97e-01	2.53e-01	9.28e-04	2.31e-02	5.88e-03	5.69e-01	7.01e-03	5.24e-01
V$CEBPGAMMA_Q6	CEBPG	1	9.92e-01	4.07e-01	1.54e-02	1.1e-01	6.01e-03	7.61e-01	6.15e-02	6.75e-01
V$CREB_Q3	ATF3,CREM	1	1e+00	1.79e-01	8.72e-01	7.1e-04	4.69e-01	6.44e-01	4.43e-02	6.57e-01
V$CREB_Q4_01	CREM	1	1e+00	1.34e-01	8.59e-01	9.27e-04	4.36e-01	4.49e-01	1.19e-01	7.77e-01

Showing 1 to 10 of 27 entries


STAT1
IRF1
STAT2
IRF7
CREM
ATF3
IRF2
STAT3
RELA
(On hover)
STAT1
IRF1
STAT2
IRF7
CREM
ATF3
IRF2
STAT3
RELA
4 hours
6 hours
8hours