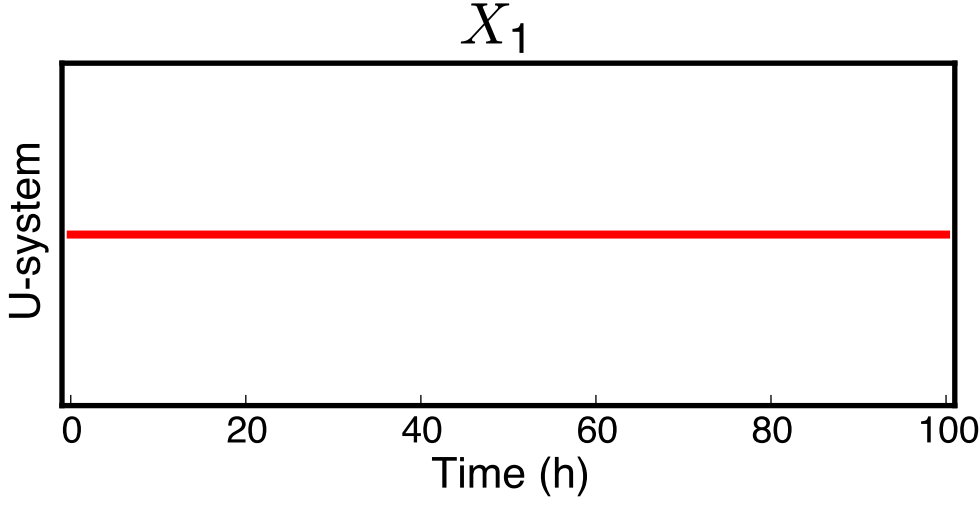
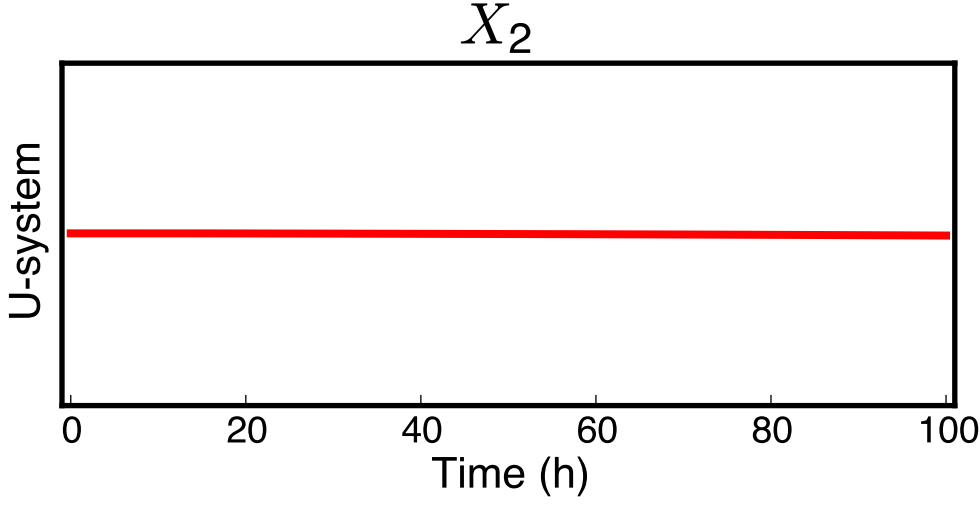
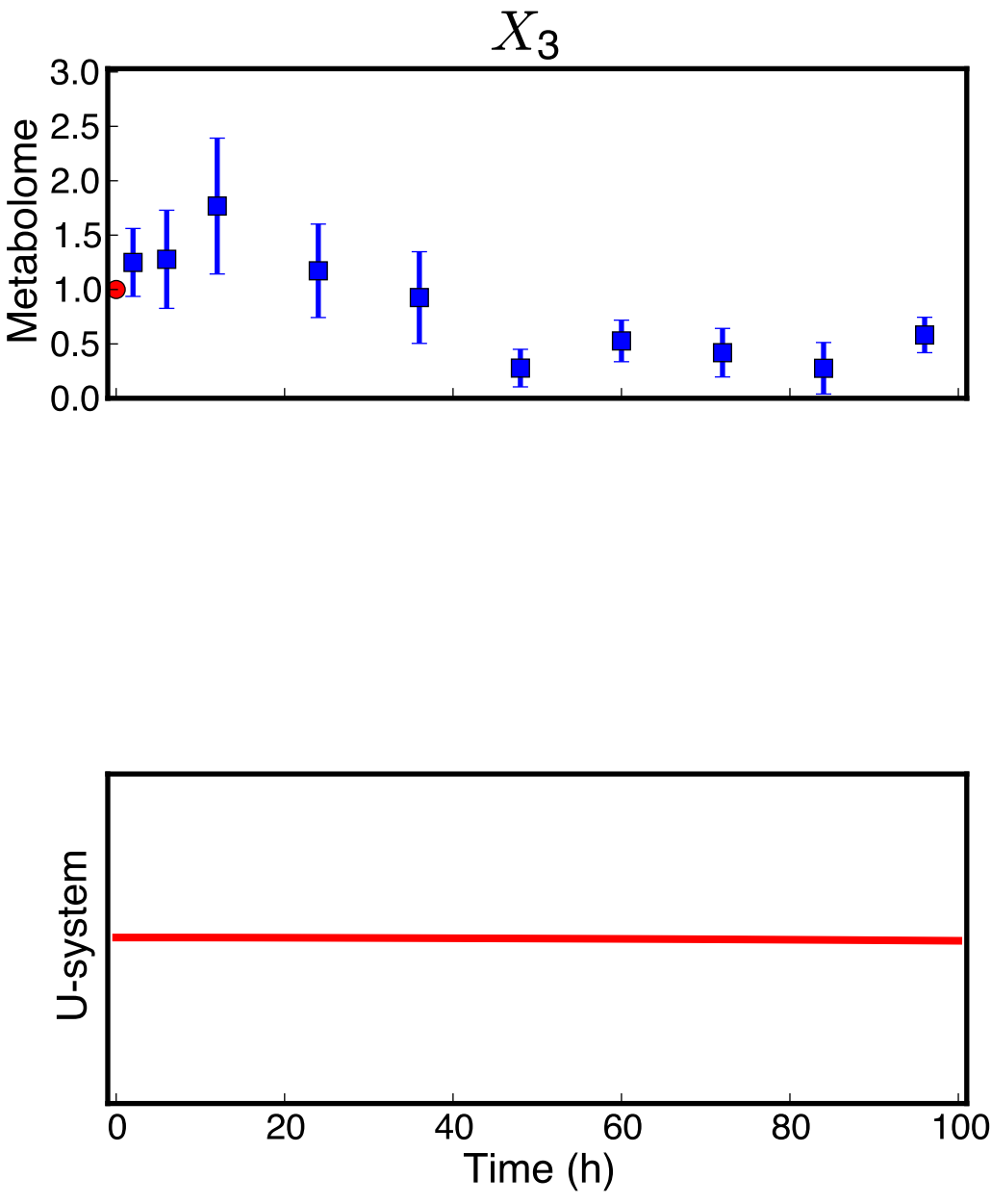
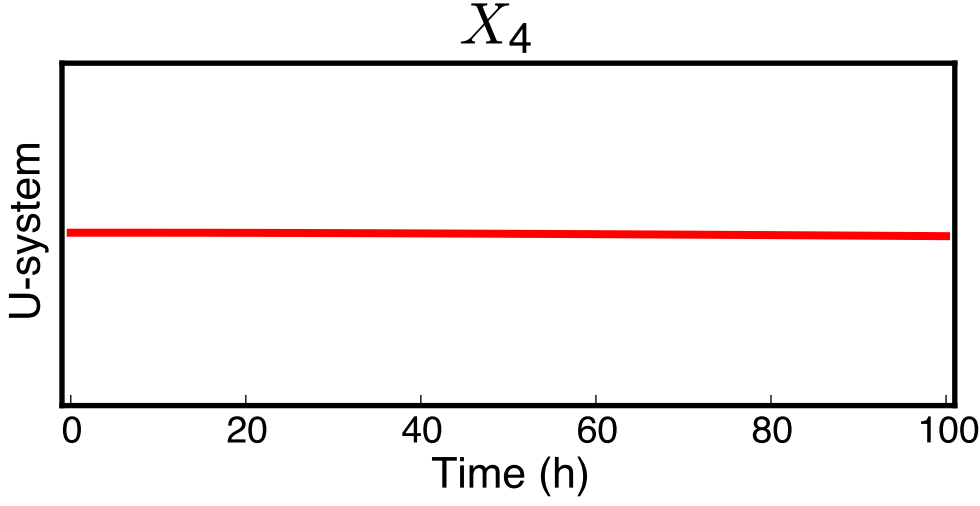
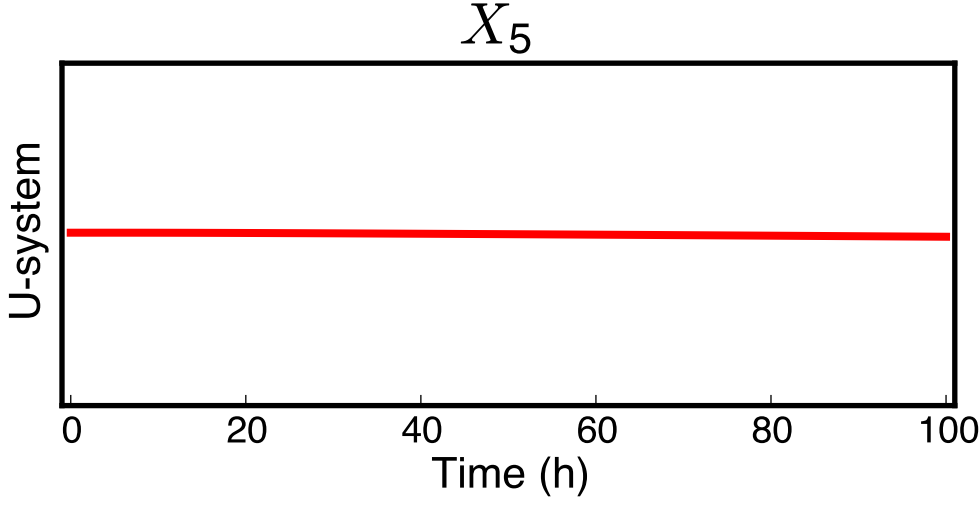
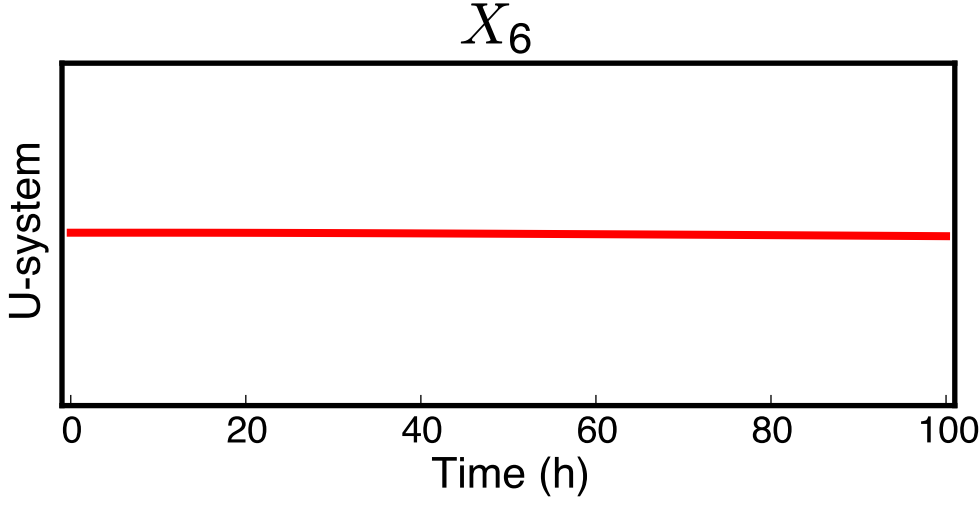

X_1
U-system
0
20
40
60
80
100
Time (h)

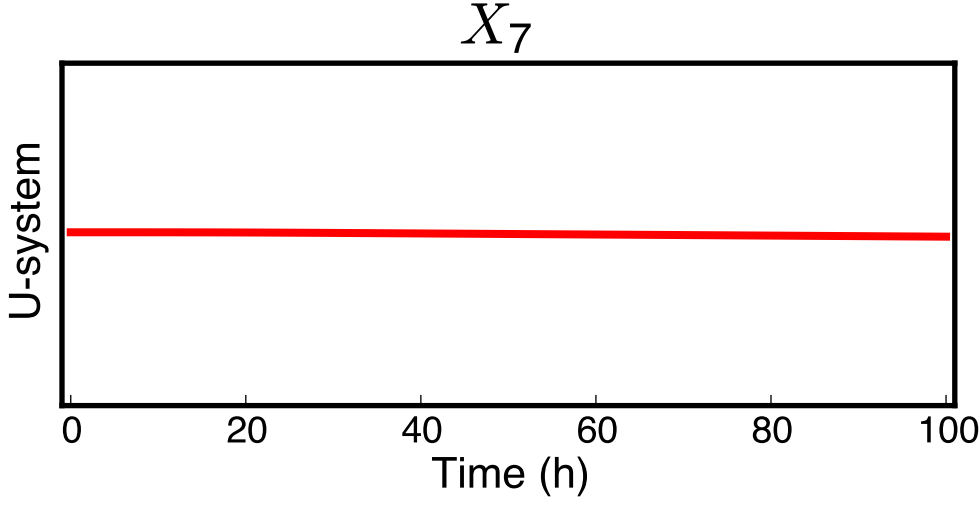

X_2
U-system
0
20
40
60
80
100
Time (h)

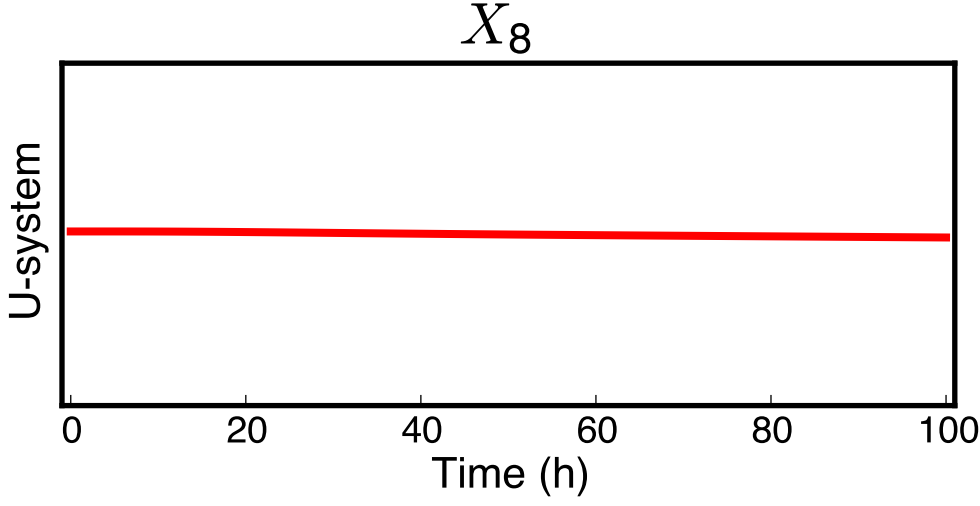

X_3
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

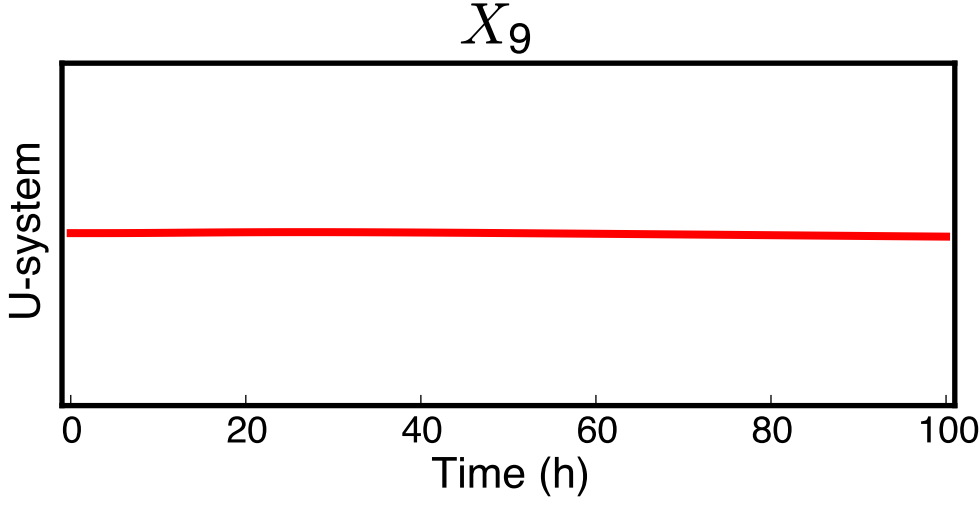

X_4
U-system
0
20
40
60
80
100
Time (h)

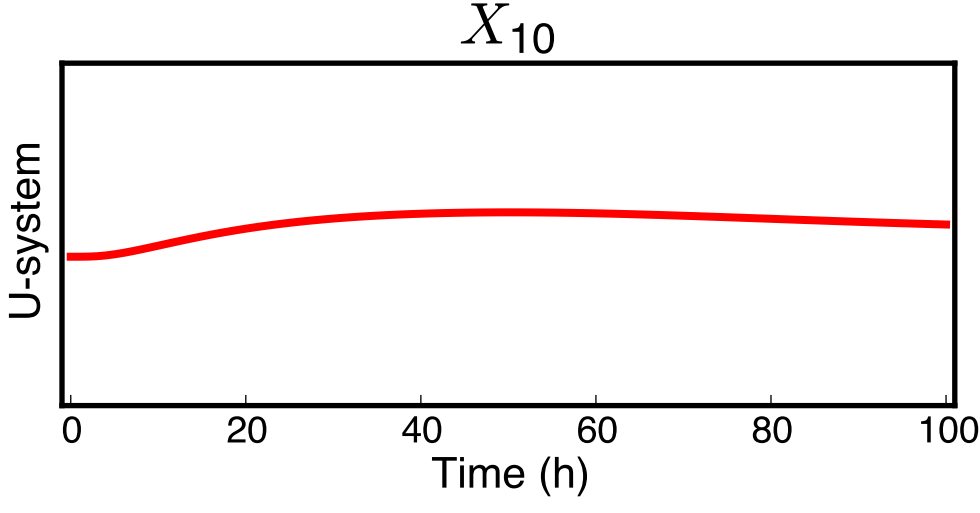

X_5
U-system
0
20
40
60
80
100
Time (h)

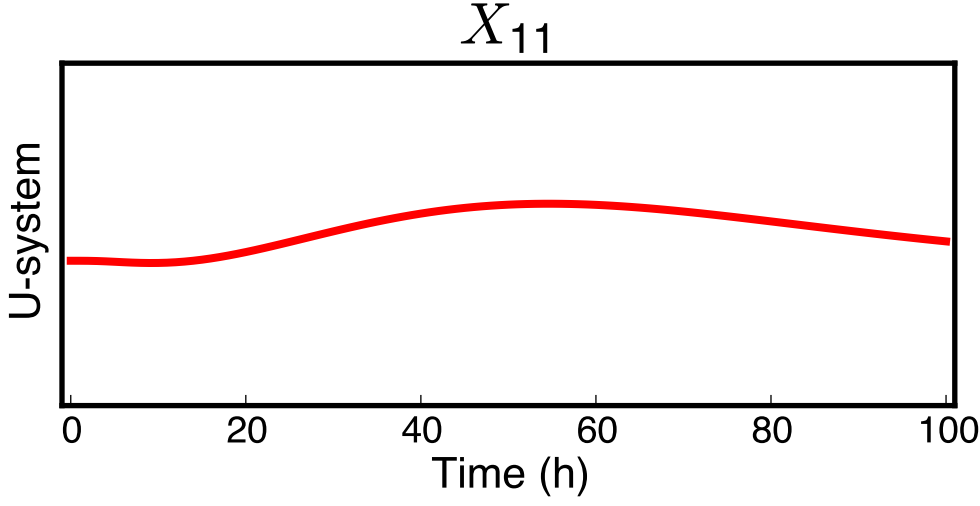

X_6
U-system
0
20
40
60
80
100
Time (h)

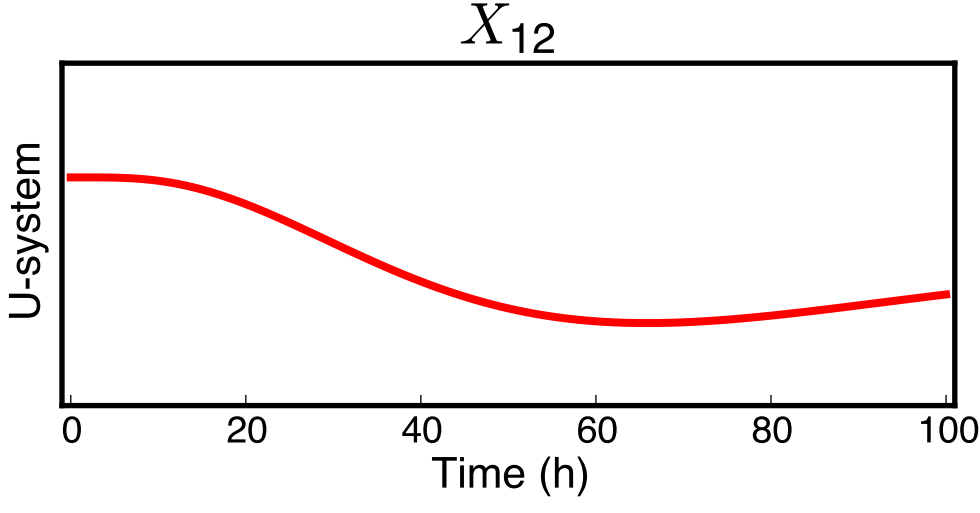

X_7
U-system
0
20
40
60
80
100
Time (h)

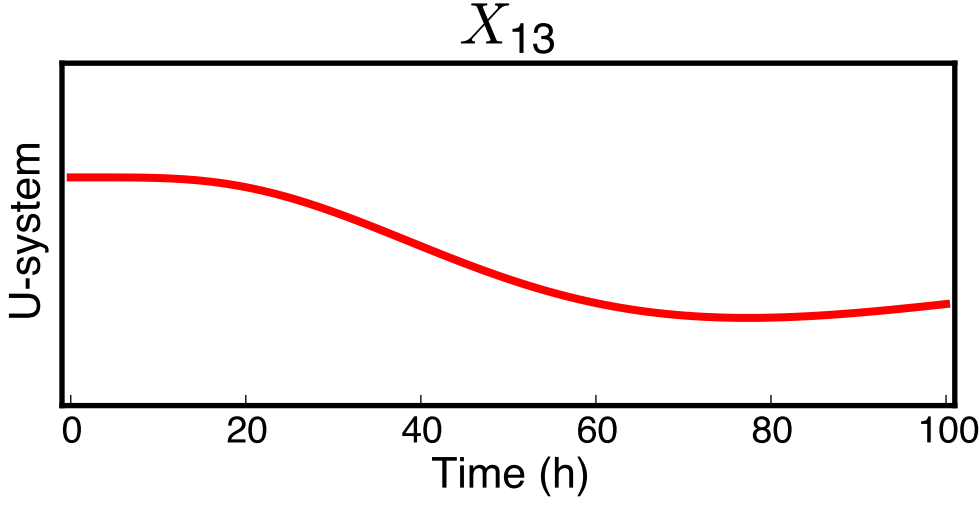

X_8
U-system
0
20
40
60
80
100
Time (h)

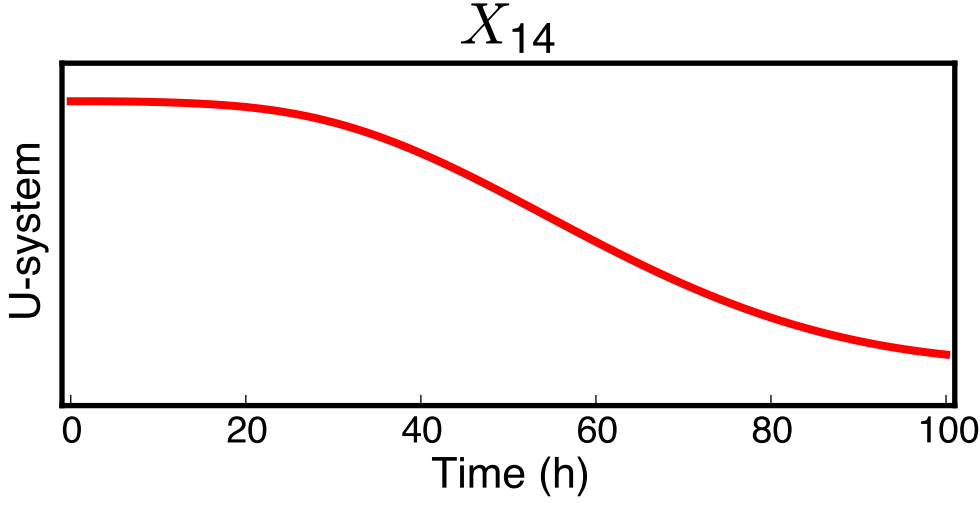

X_9
U-system
0
20
40
60
80
100
Time (h)

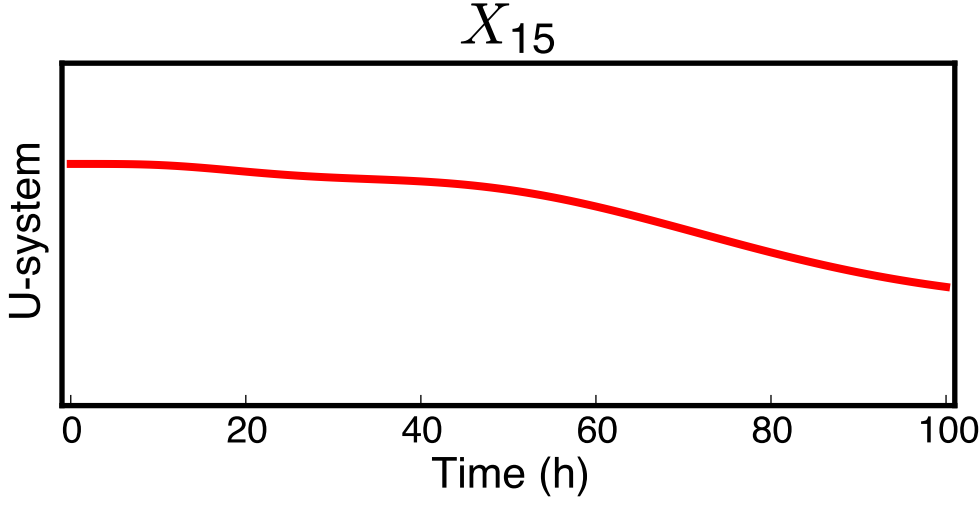

X_{10}
U-system
0
20
40
60
80
100
Time (h)

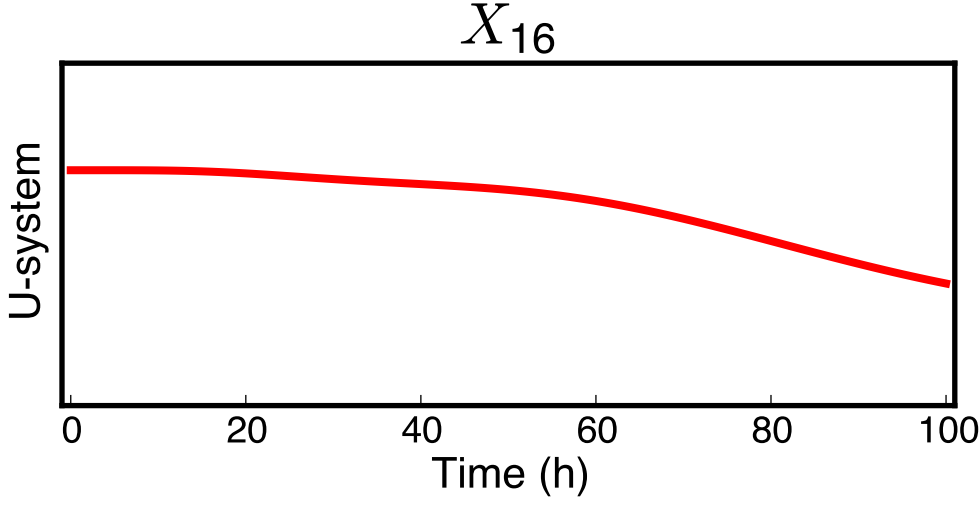

X_{11}
U-system
0
20
40
60
80
100
Time (h)

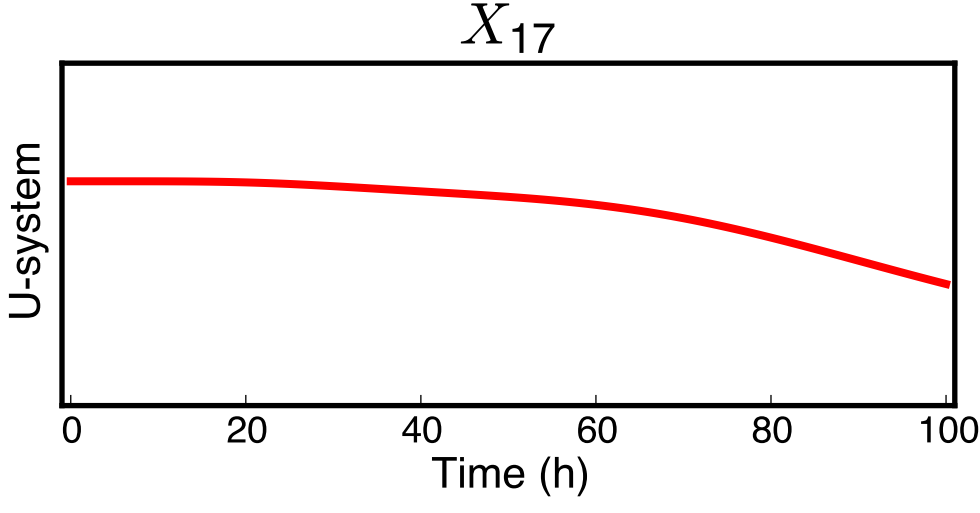

X_{12}
U-system
0
20
40
60
80
100
Time (h)

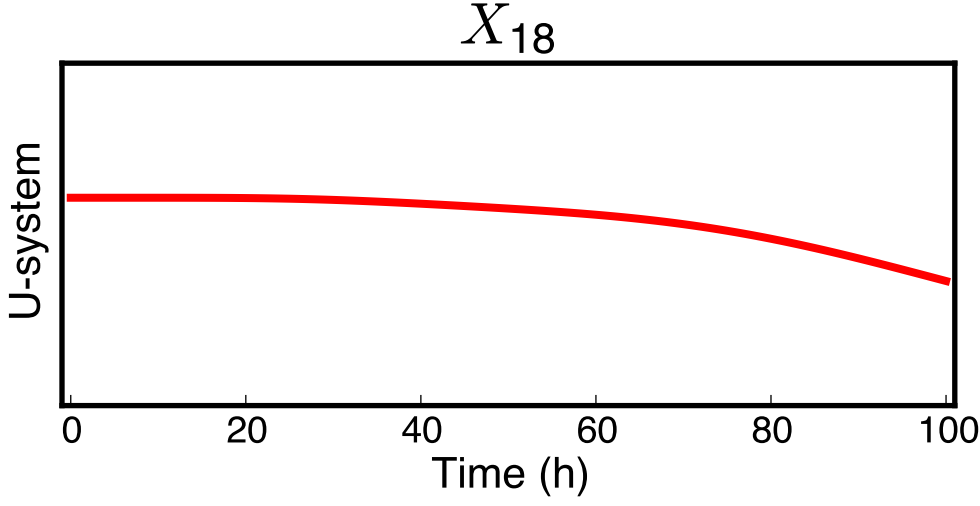

X_{13}
U-system
0
20
40
60
80
100
Time (h)

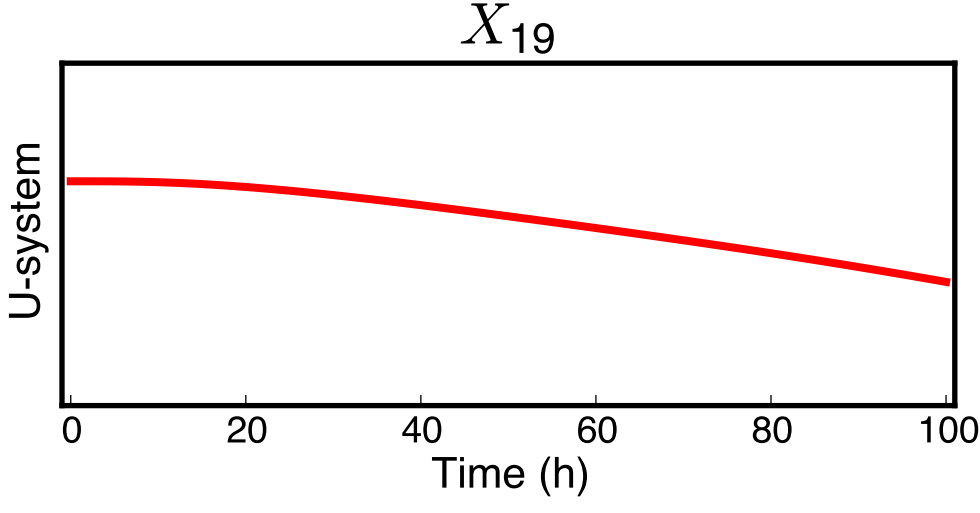

X_{14}
U-system
0
20
40
60
80
100
Time (h)

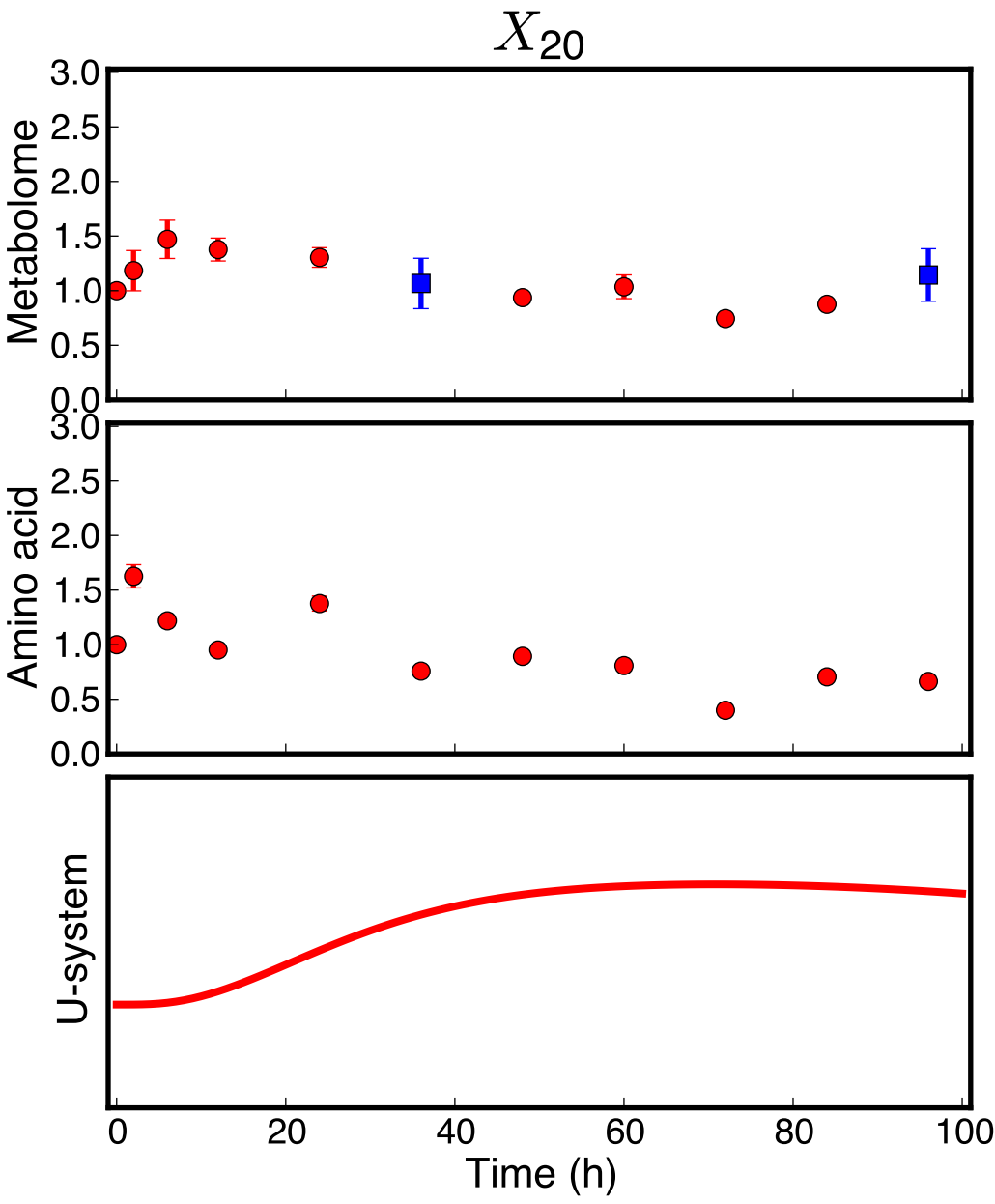

X_{15}
U-system
0
20
40
60
80
100
Time (h)

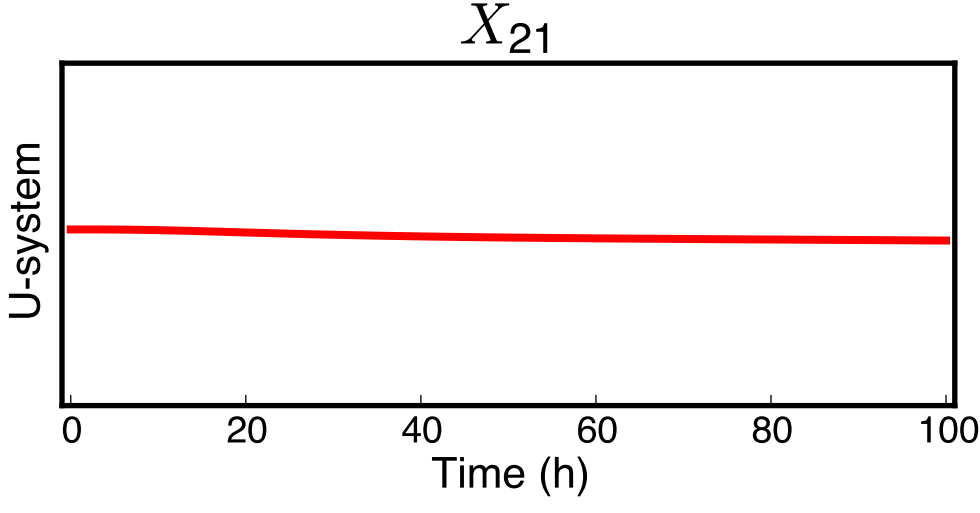

X_{16}
U-system
0
20
40
60
80
100
Time (h)

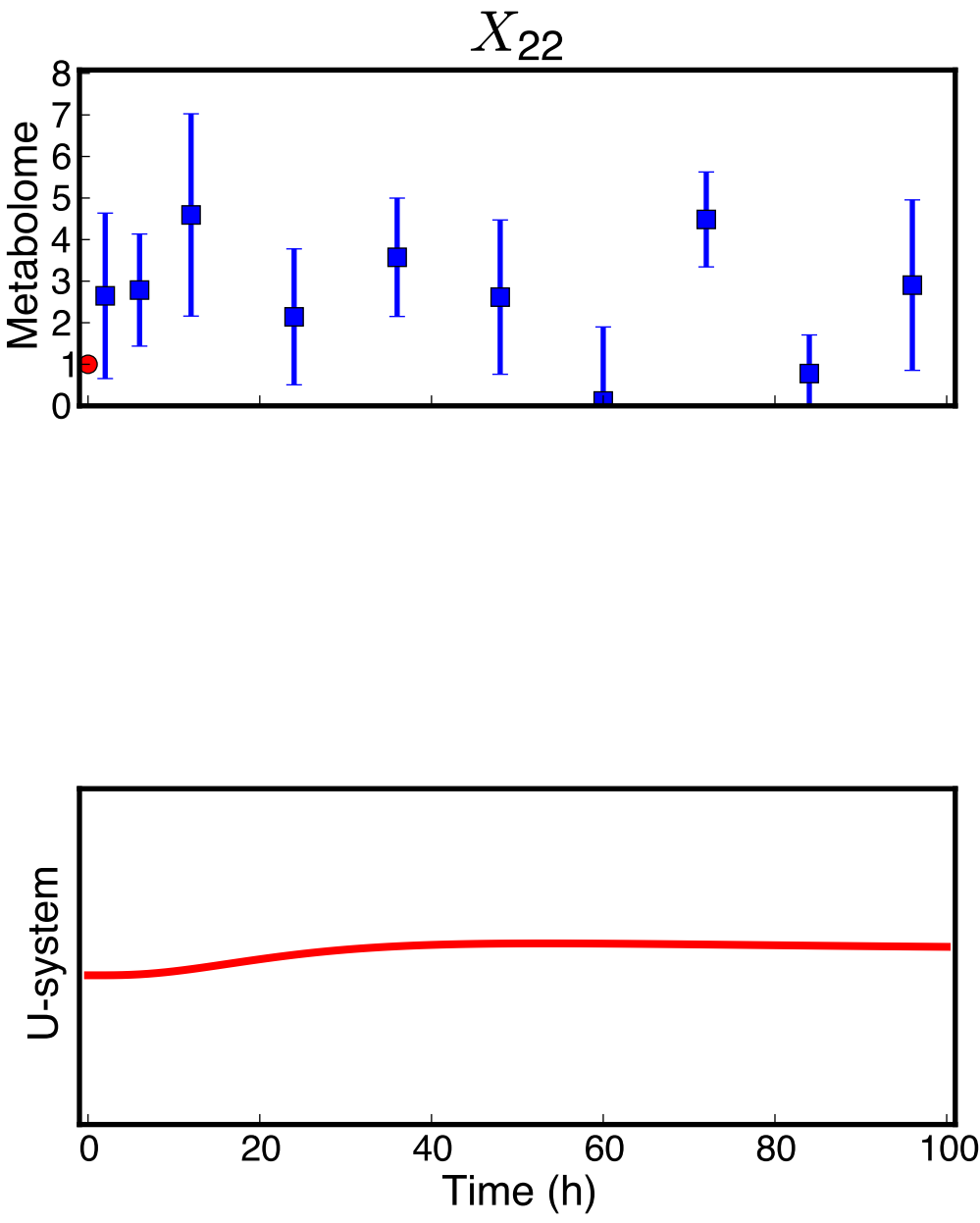

X_{17}
U-system
0
20
40
60
80
100
Time (h)

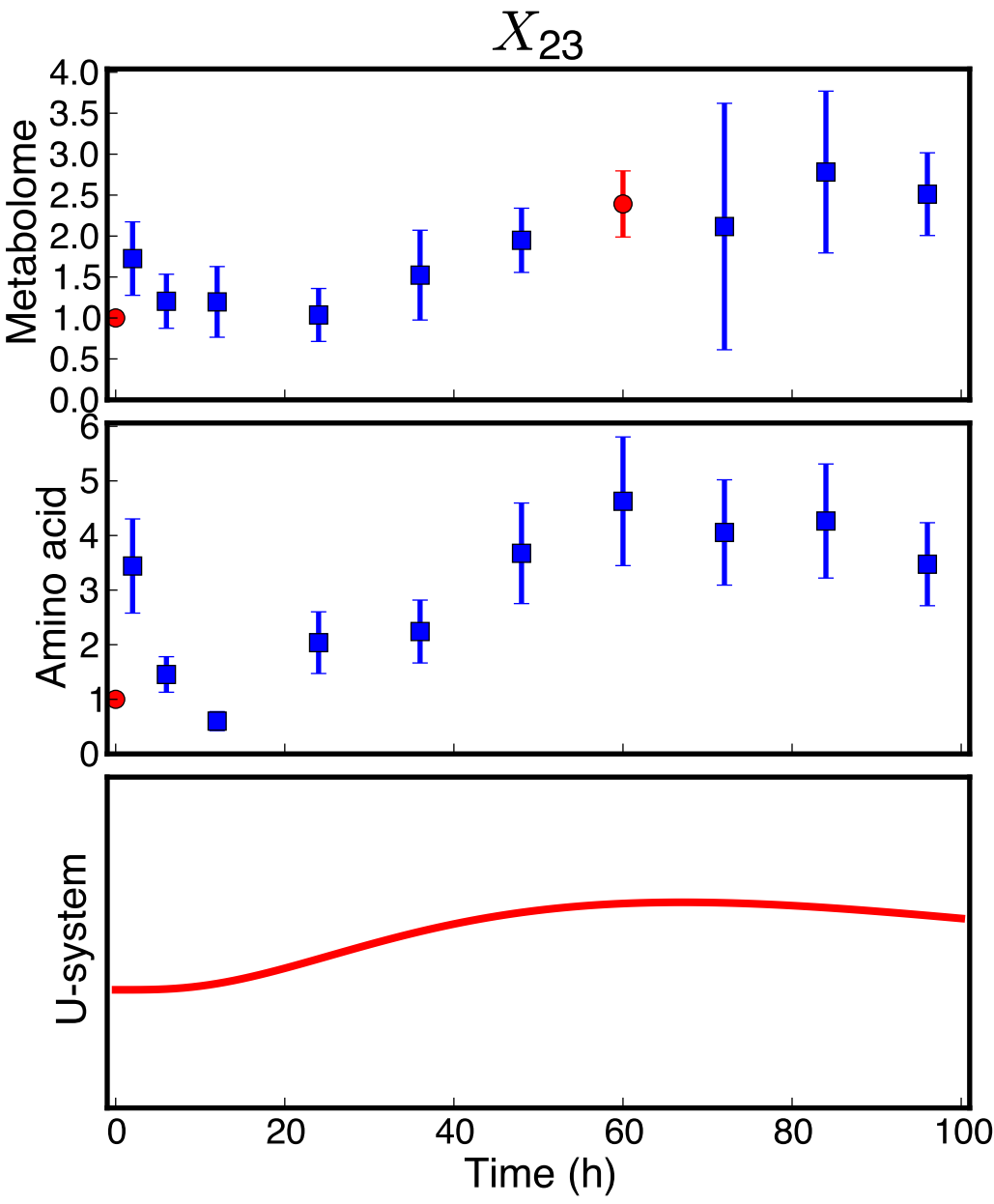

X_{18}
U-system
0
20
40
60
80
100
Time (h)

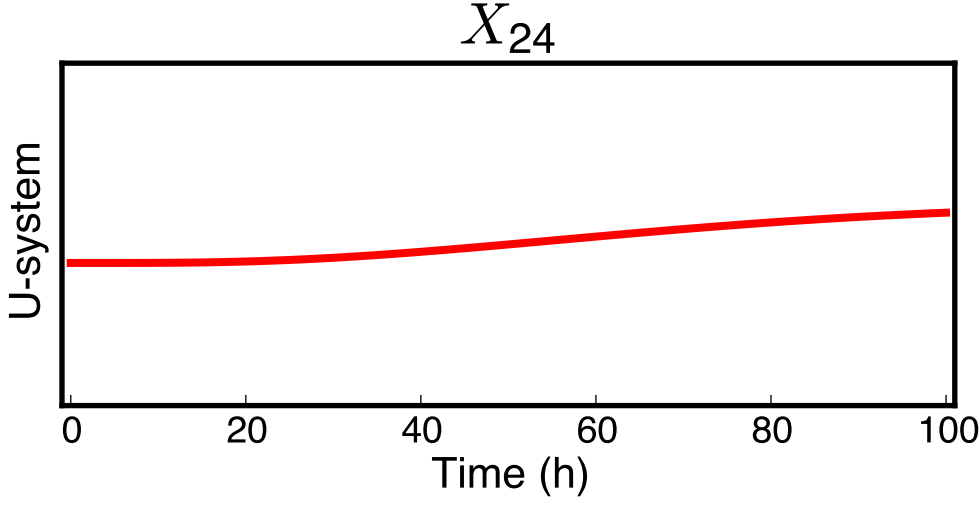

X_{19}
U-system
0
20
40
60
80
100
Time (h)

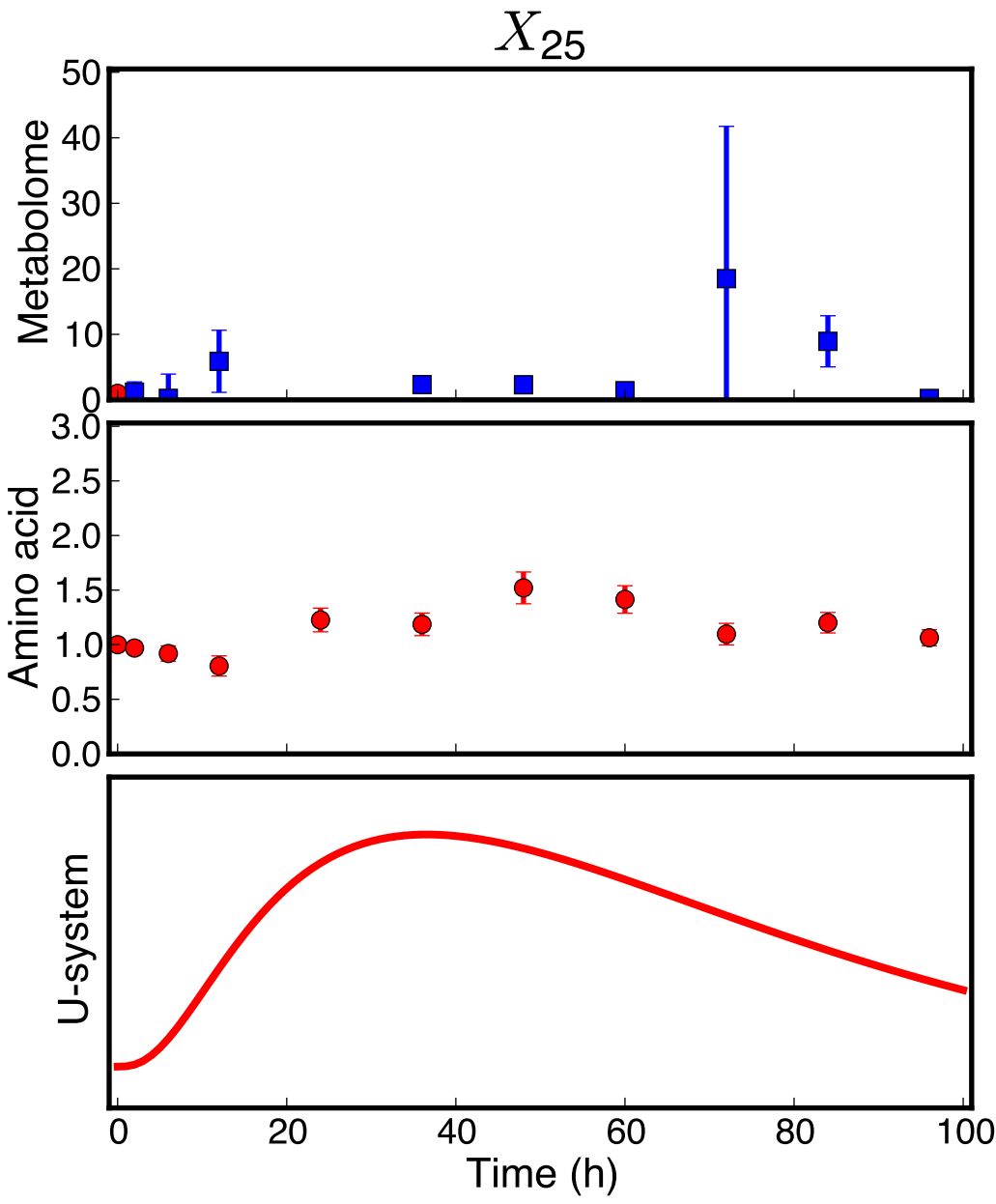

X_{20}
Metabolome
Amino acid
U-system
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

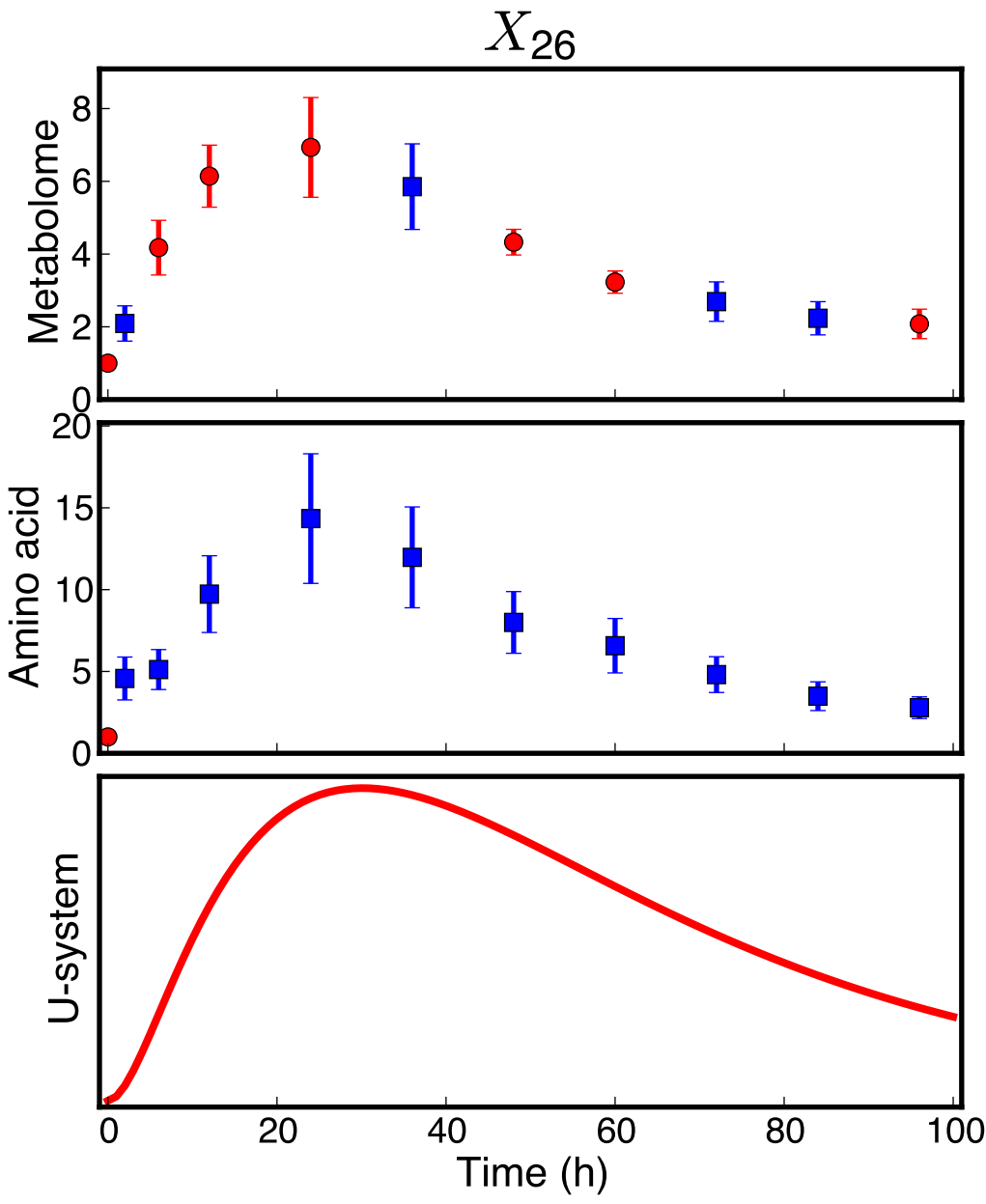

X_{21}
U-system
0
20
40
60
80
100
Time (h)

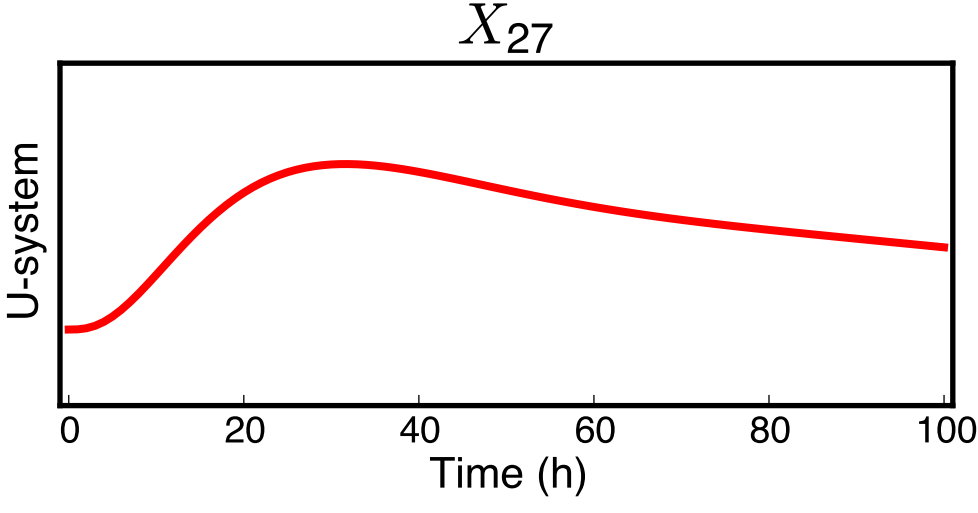

X_{22}
Metabolome
0
1
2
3
4
5
6
7
8
U-system
0
20
40
60
80
100
Time (h)

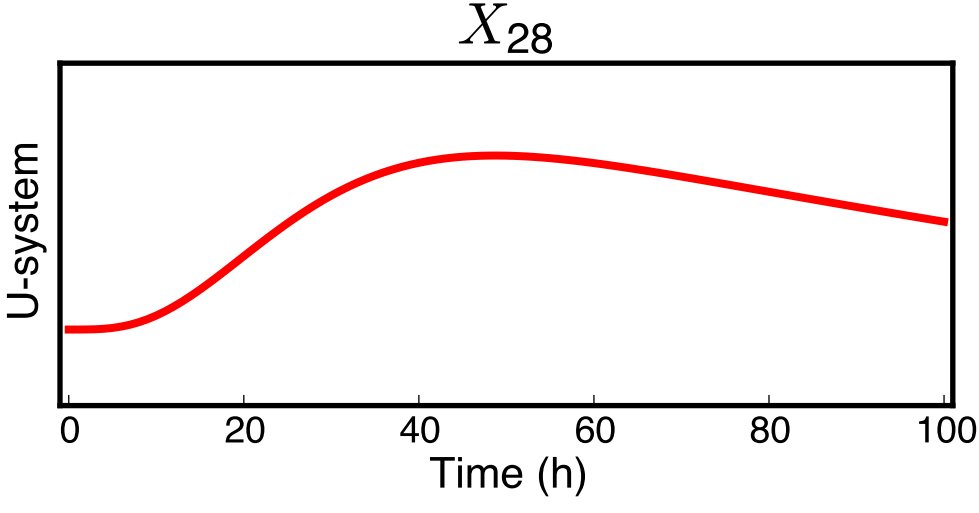

X_{23}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Amino acid
6
5
4
3
2
1
0
U-system
0
20
40
60
80
100
Time (h)

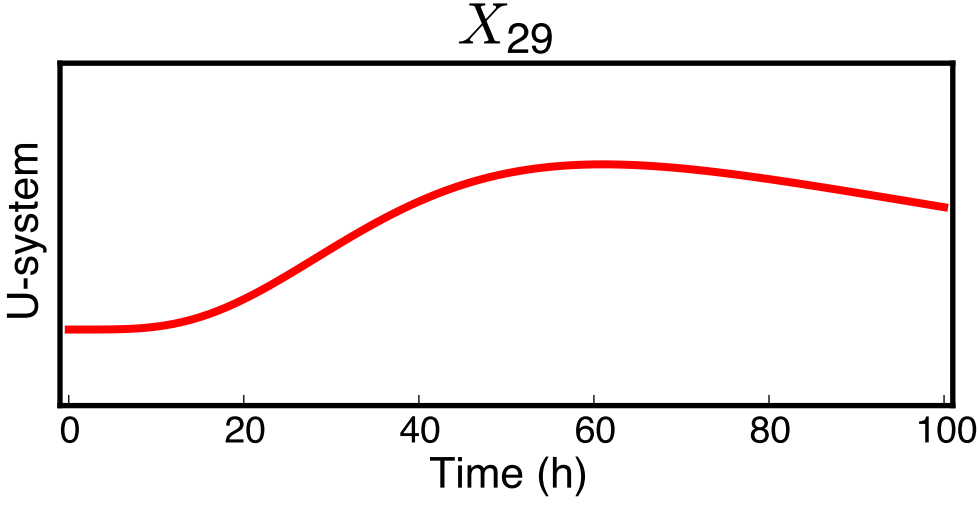

X_{24}
U-system
0
20
40
60
80
100
Time (h)

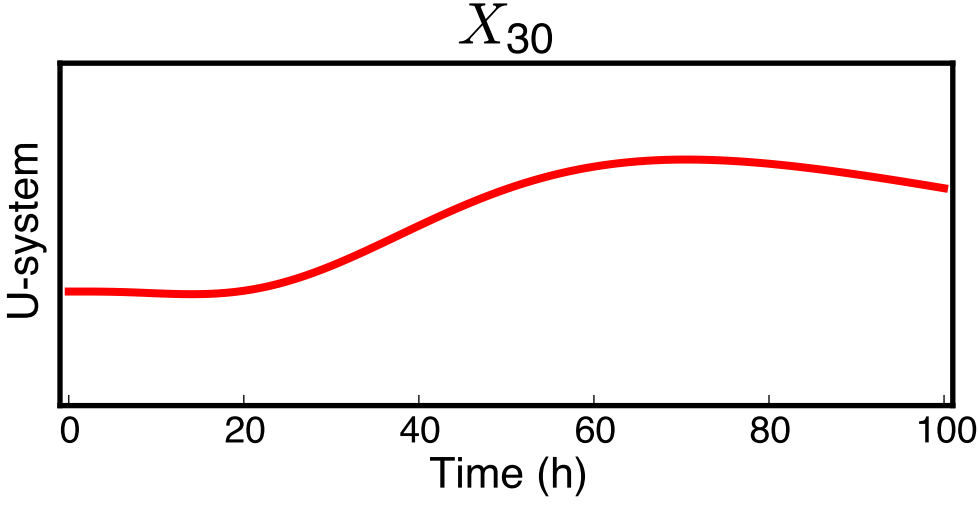

X_{25}
Metabolome
50
40
30
20
10
0
Amino acid
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

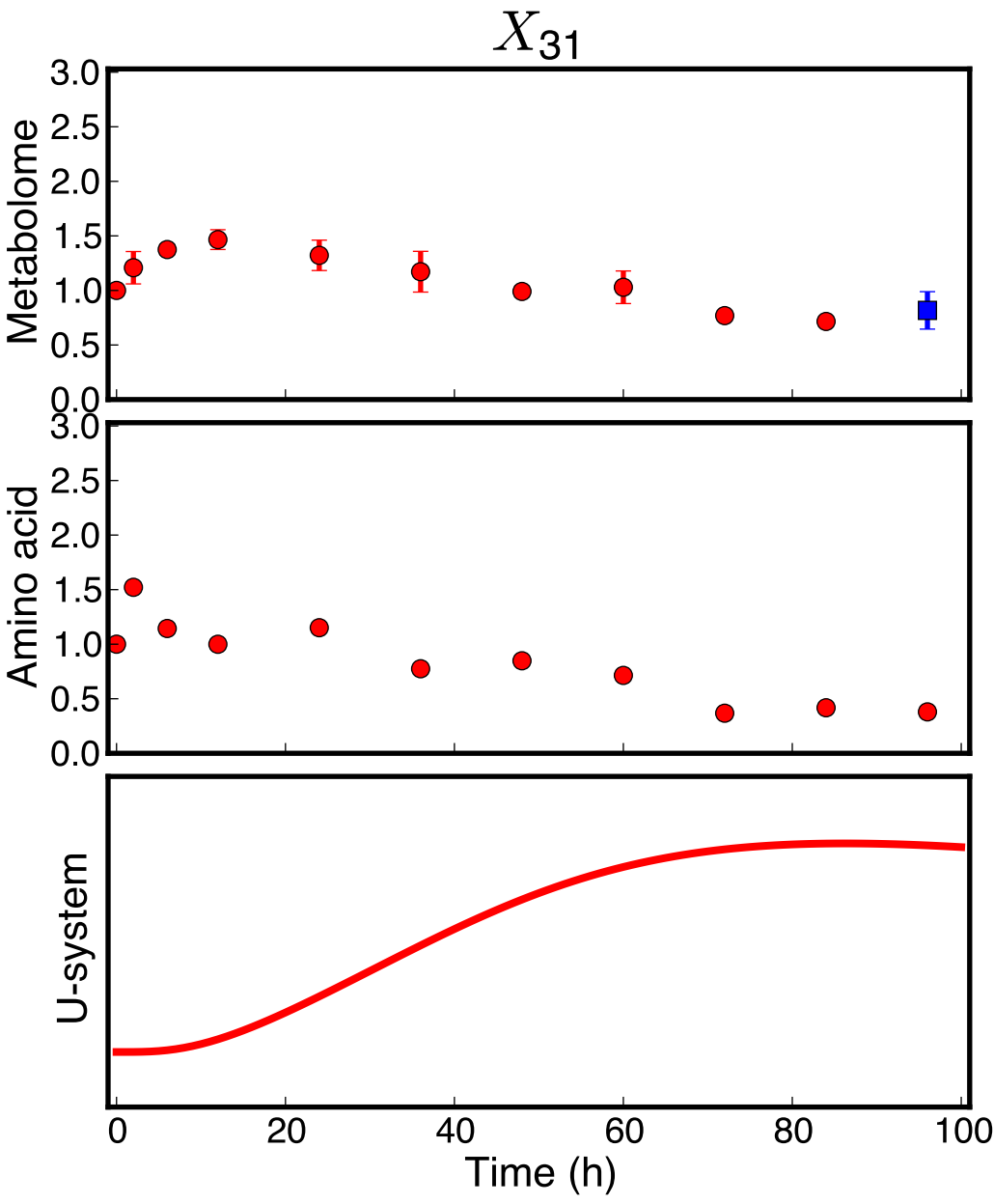

X_{26}
Metabolome
0
2
4
6
8
Amino acid
0
5
10
15
20
U-system
0
20
40
60
80
100
Time (h)

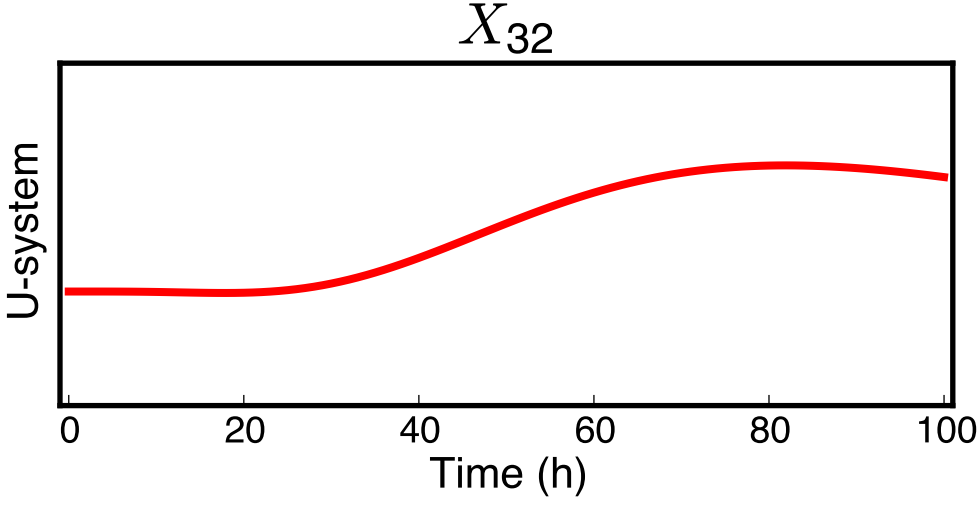

X_{27}
U-system
0
20
40
60
80
100
Time (h)

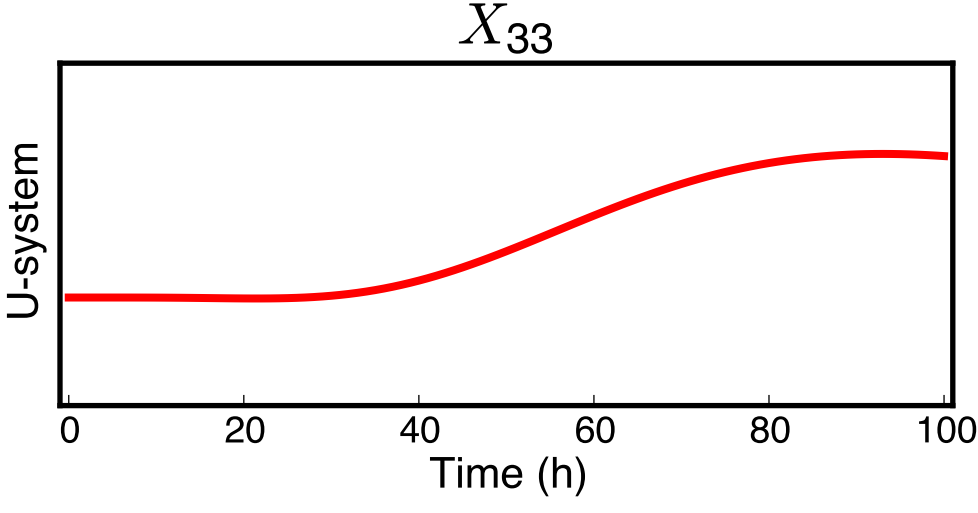

X_{28}
U-system
0
20
40
60
80
100
Time (h)

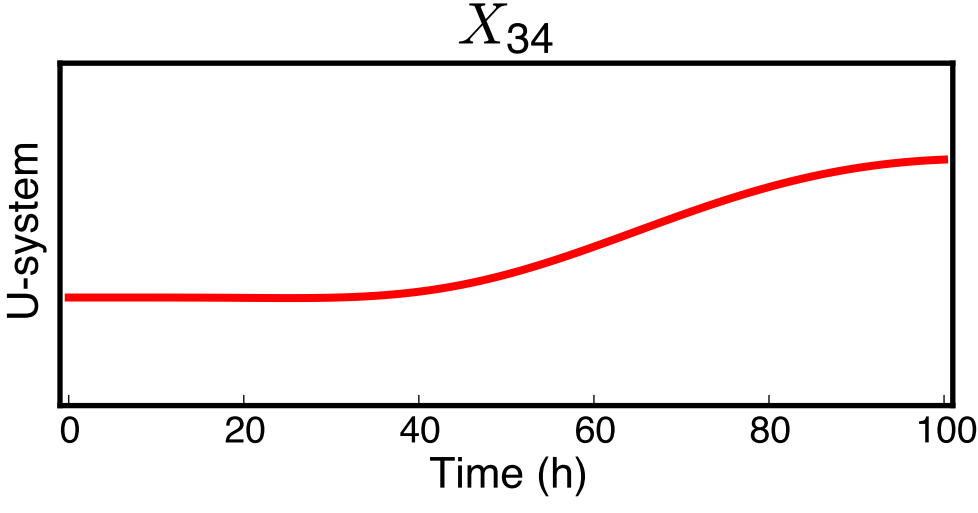

X_{29}
U-system
0
20
40
60
80
100
Time (h)

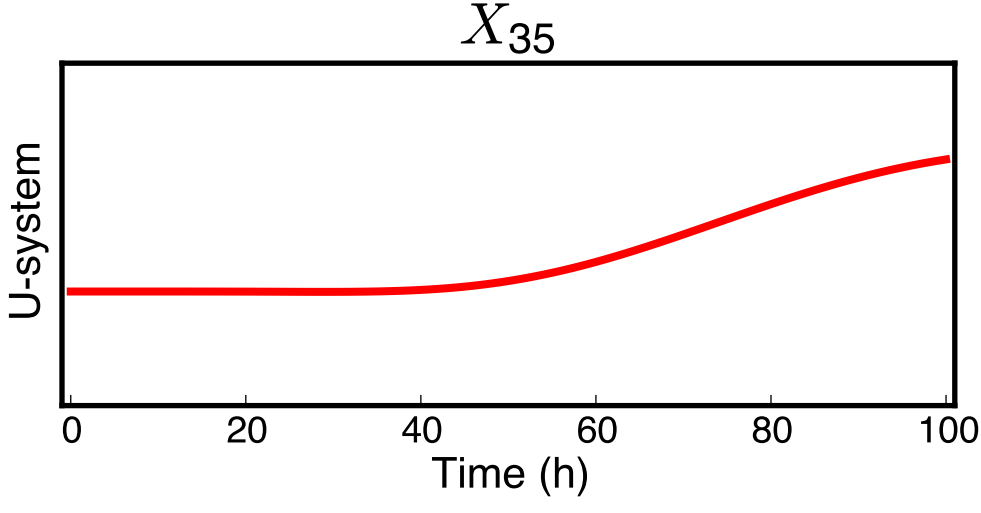

X_{30}
U-system
0
20
40
60
80
100
Time (h)

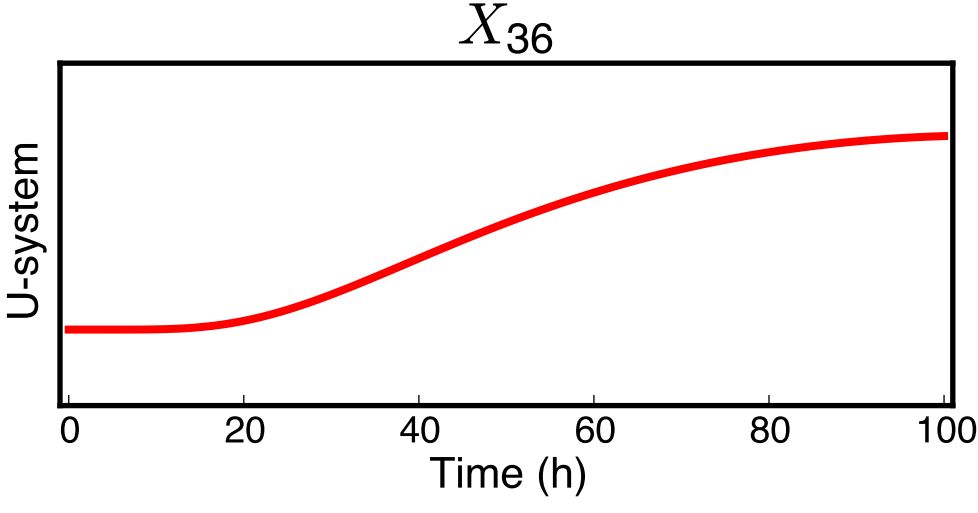

X_{31}
Metabolome
Amino acid
U-system
Time (h)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
20
40
60
80
100

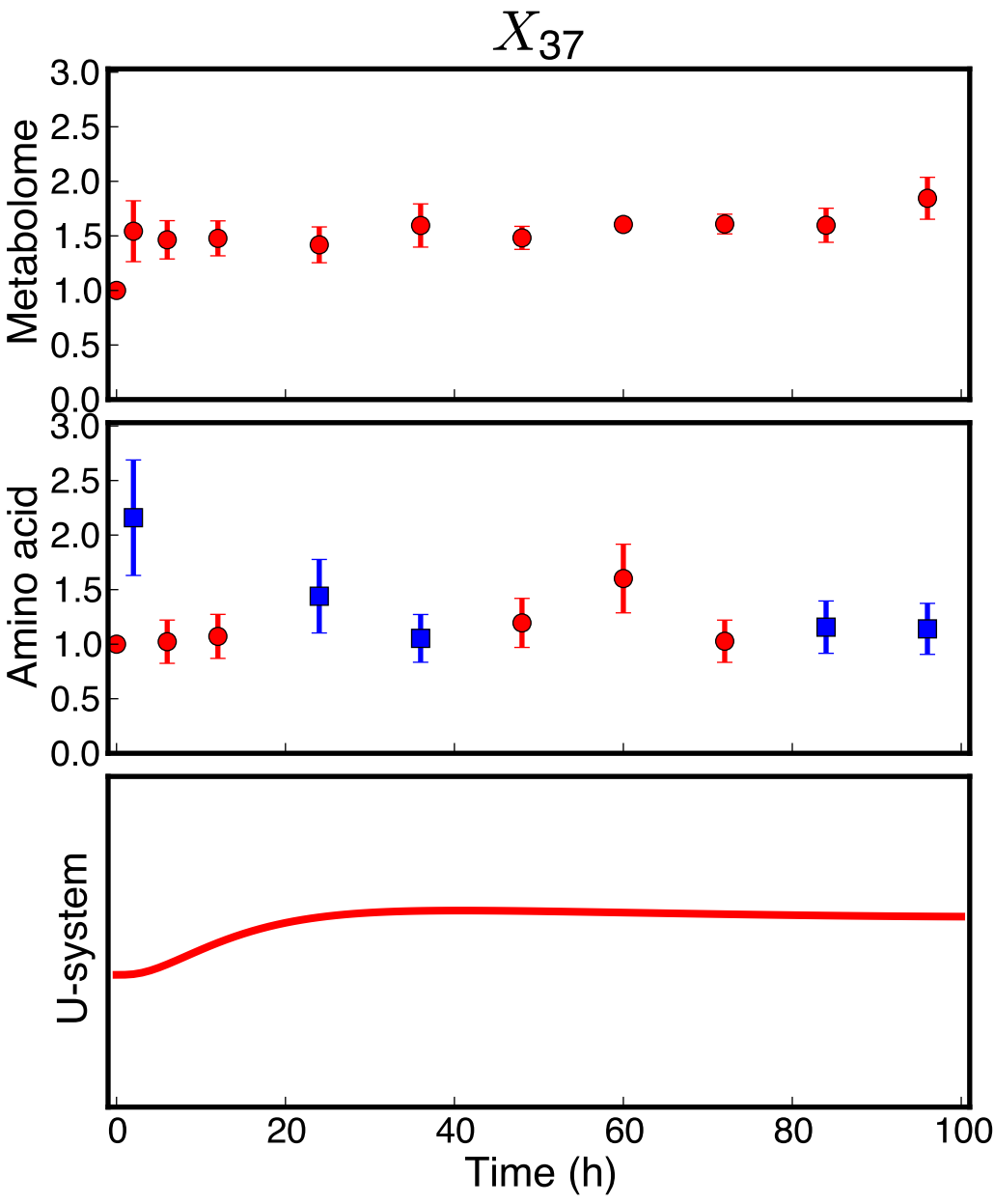

X_{32}
U-system
0
20
40
60
80
100
Time (h)

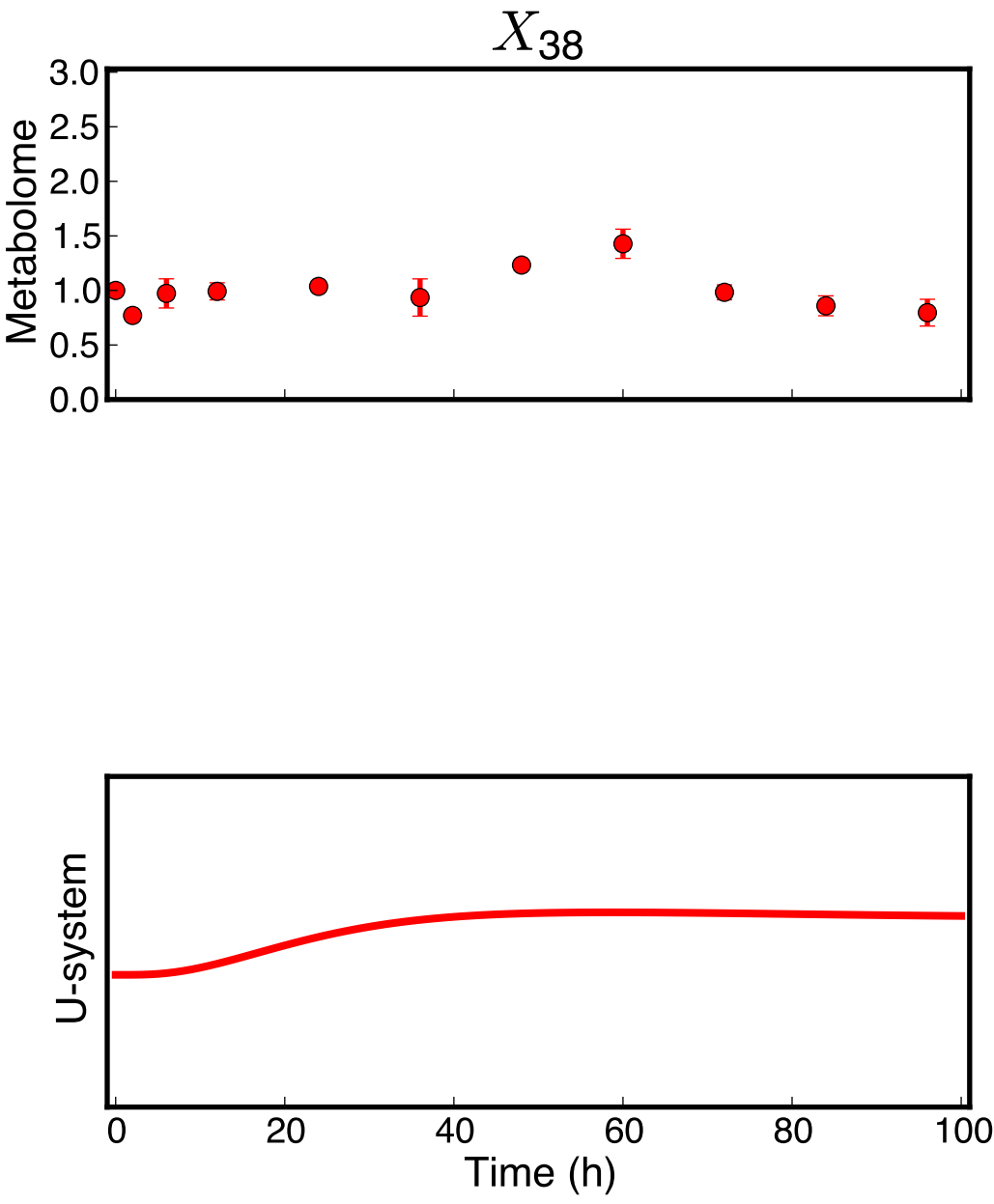

X_{33}
U-system
0
20
40
60
80
100
Time (h)

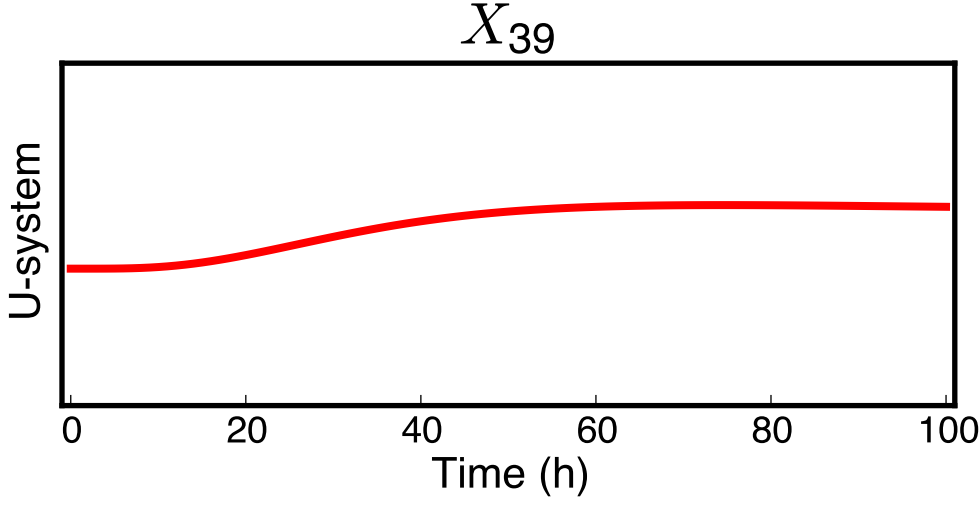

X_{34}
U-system
0
20
40
60
80
100
Time (h)

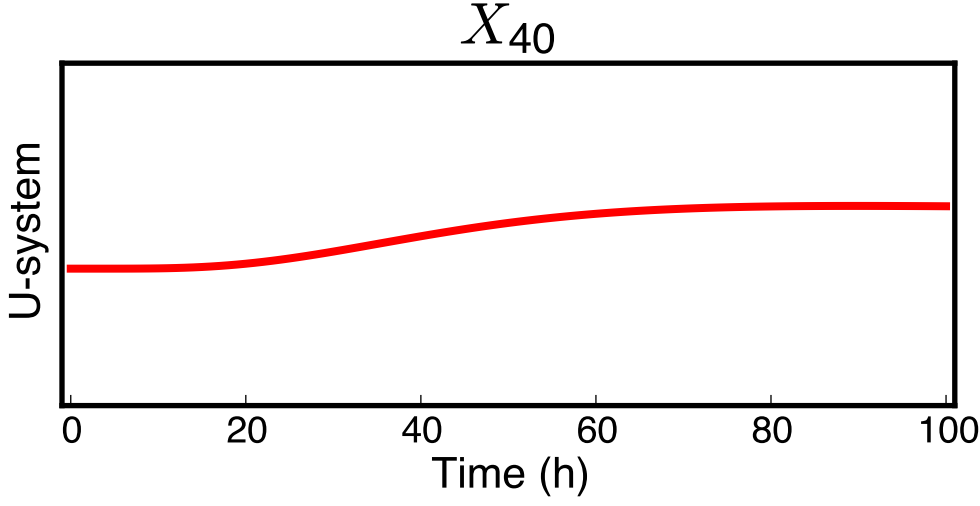

X_{35}
U-system
0
20
40
60
80
100
Time (h)

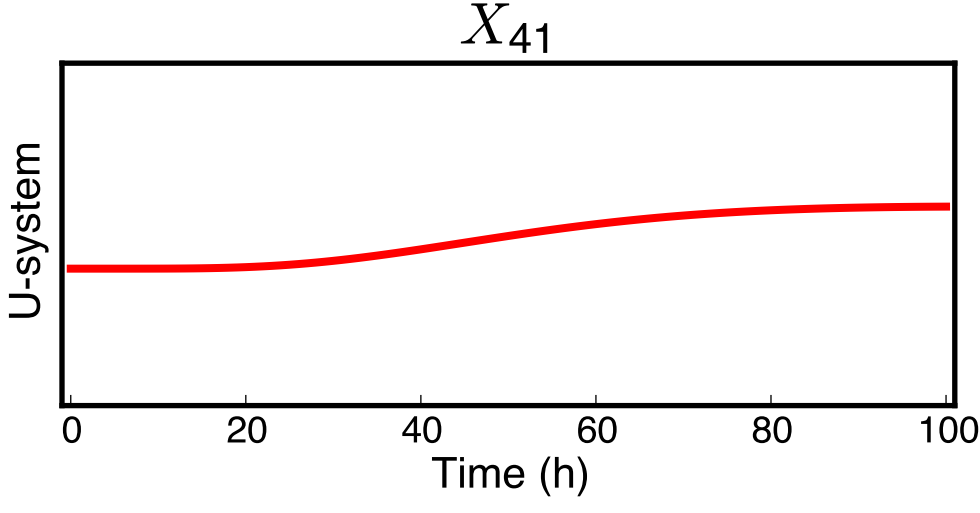

X_{36}
U-system
0
20
40
60
80
100
Time (h)

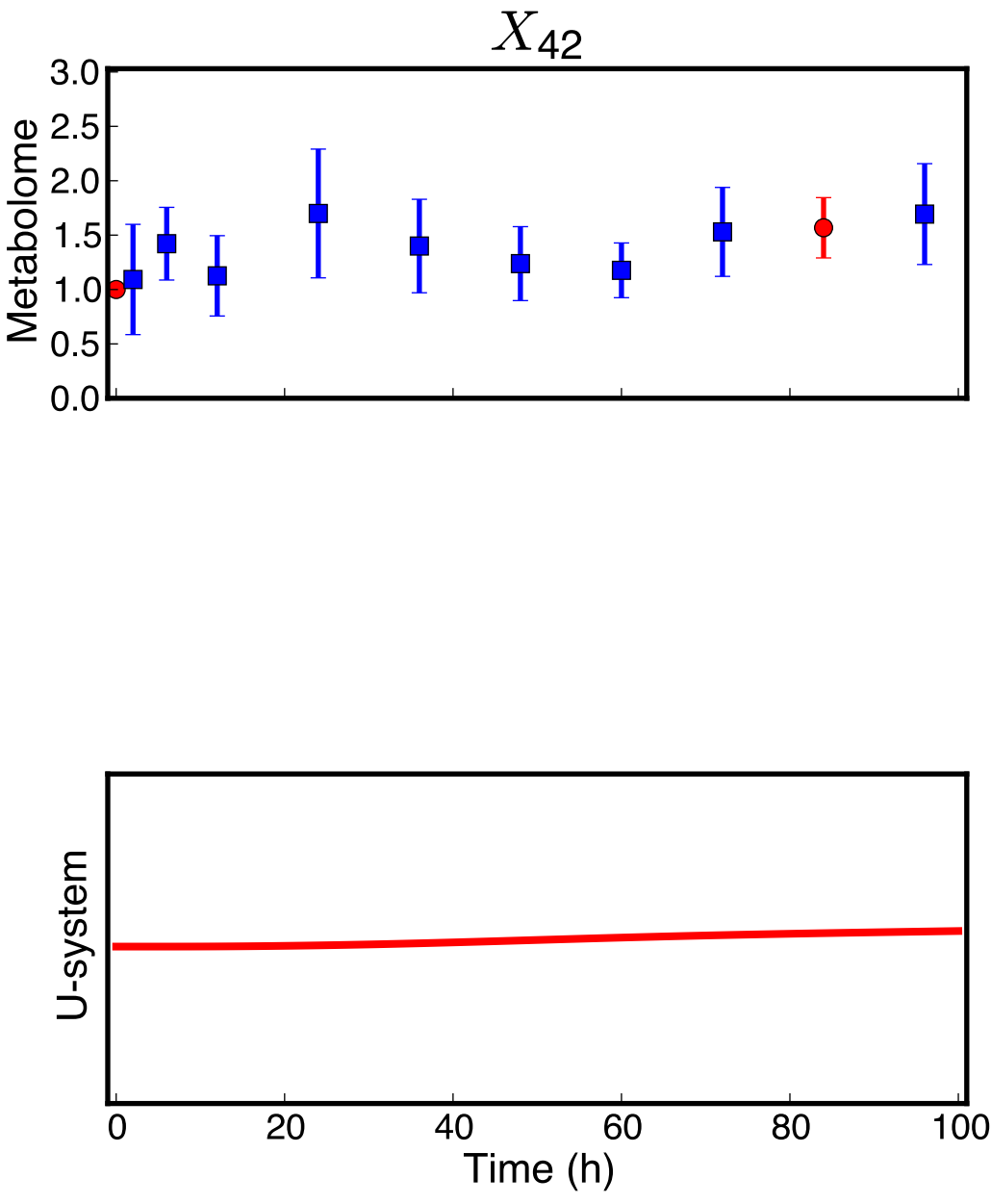

X_{37}
Metabolome
Amino acid
U-system
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

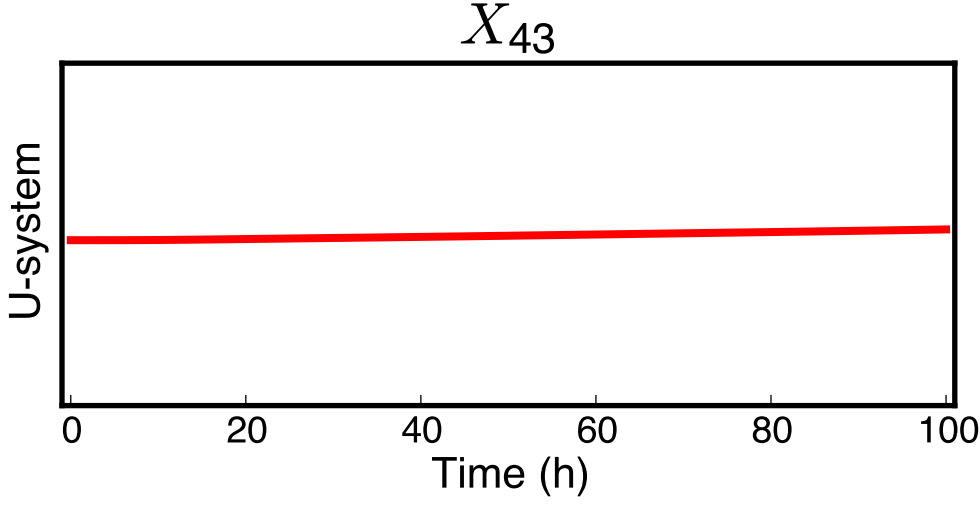

X_{38}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

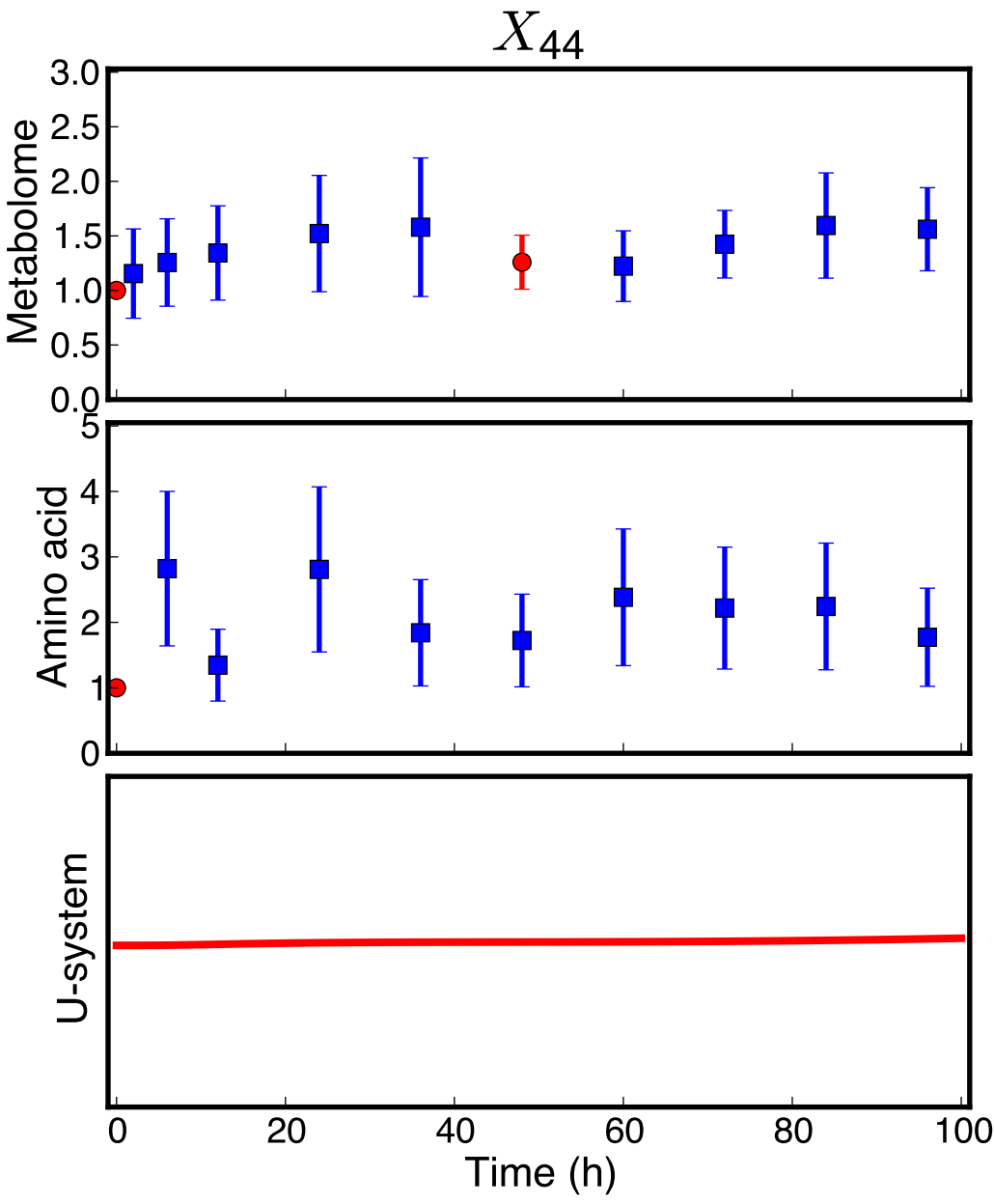

X_{39}
U-system
0
20
40
60
80
100
Time (h)

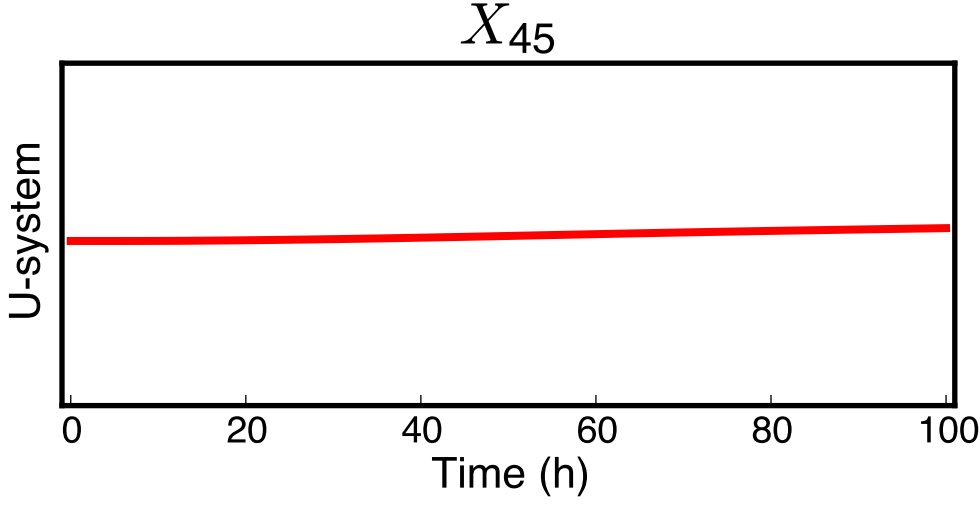

X_{40}
U-system
0
20
40
60
80
100
Time (h)


X_{41}
U-system
0
20
40
60
80
100
Time (h)


X_{42}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{43}
U-system
0
20
40
60
80
100
Time (h)


X_{44}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Amino acid
5
4
3
2
1
0
U-system
0
20
40
60
80
100
Time (h)


X_{45}
U-system
0
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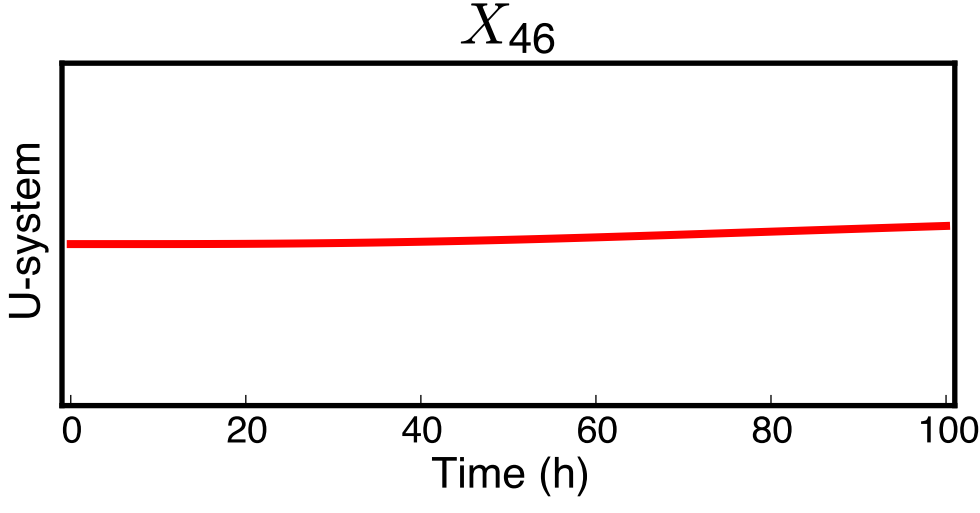
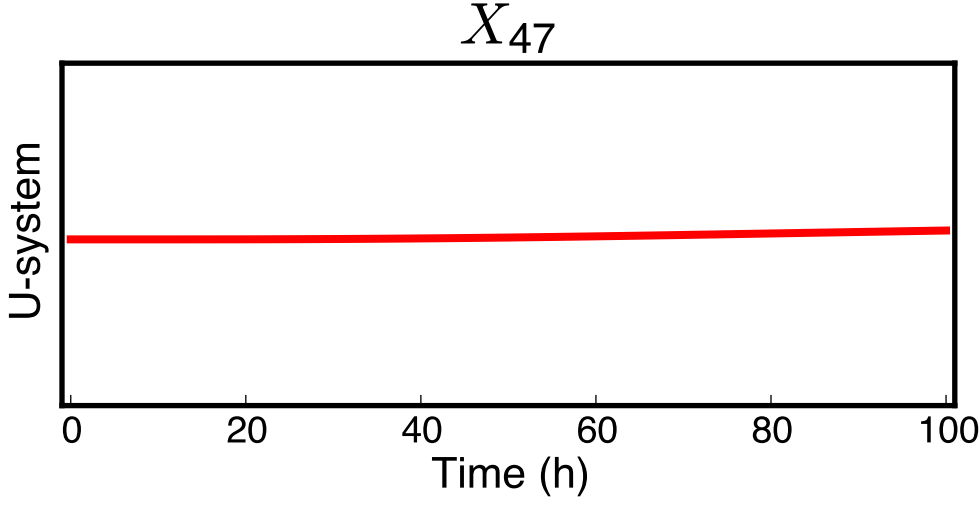
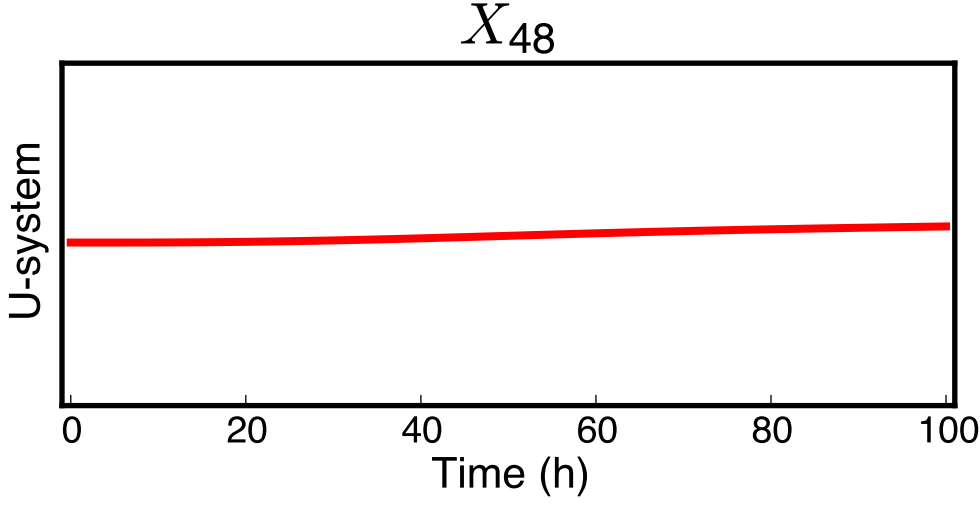
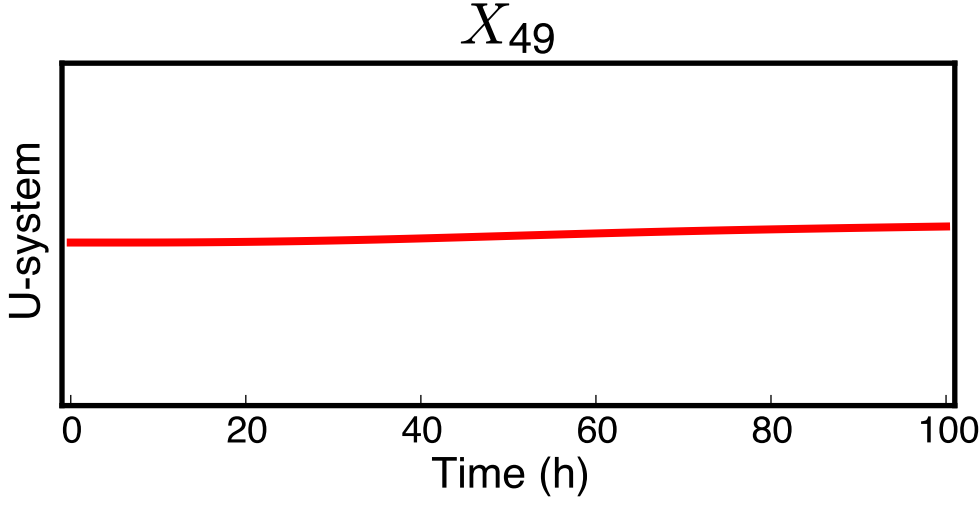
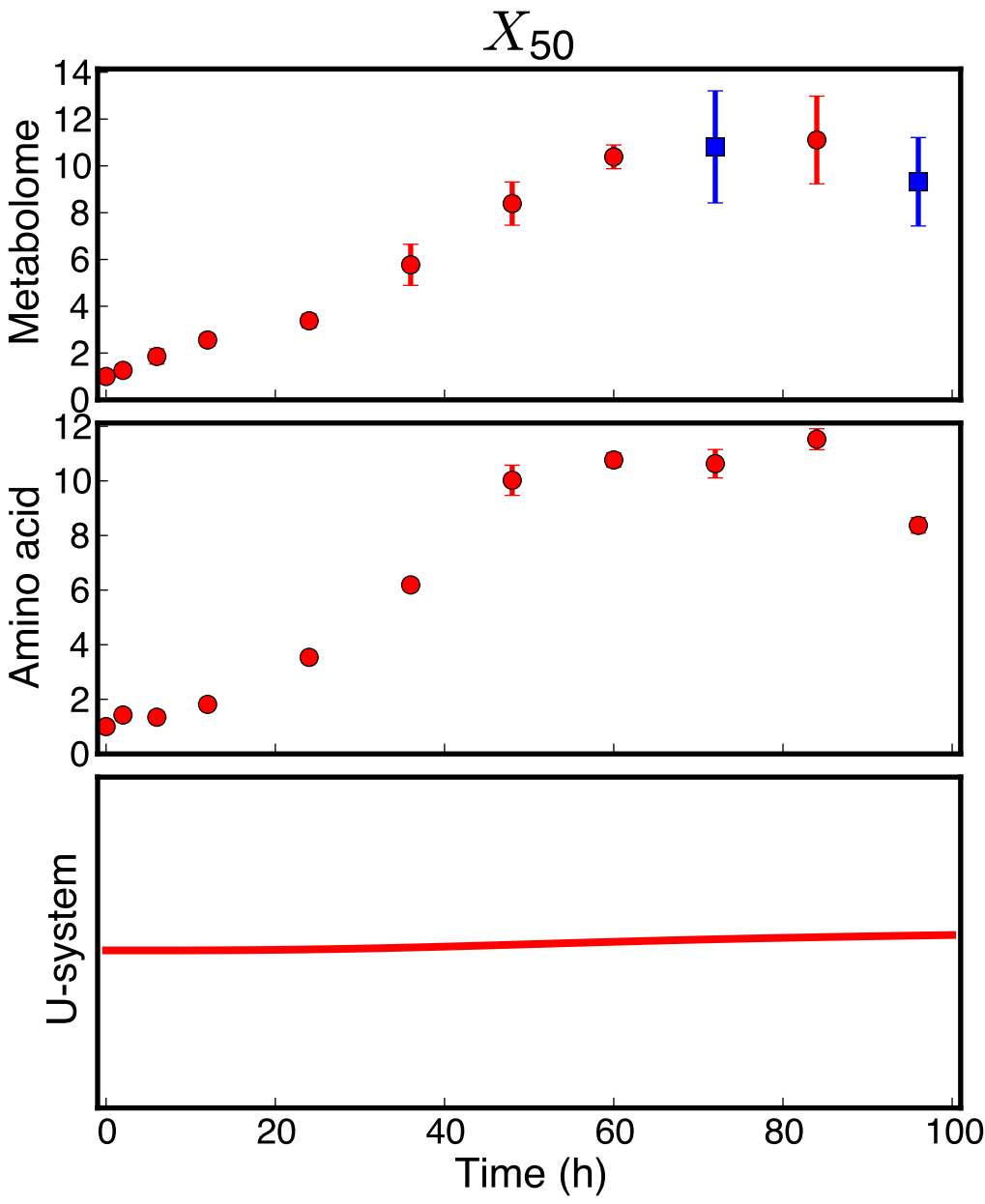
40
60
80
100
Time (h)

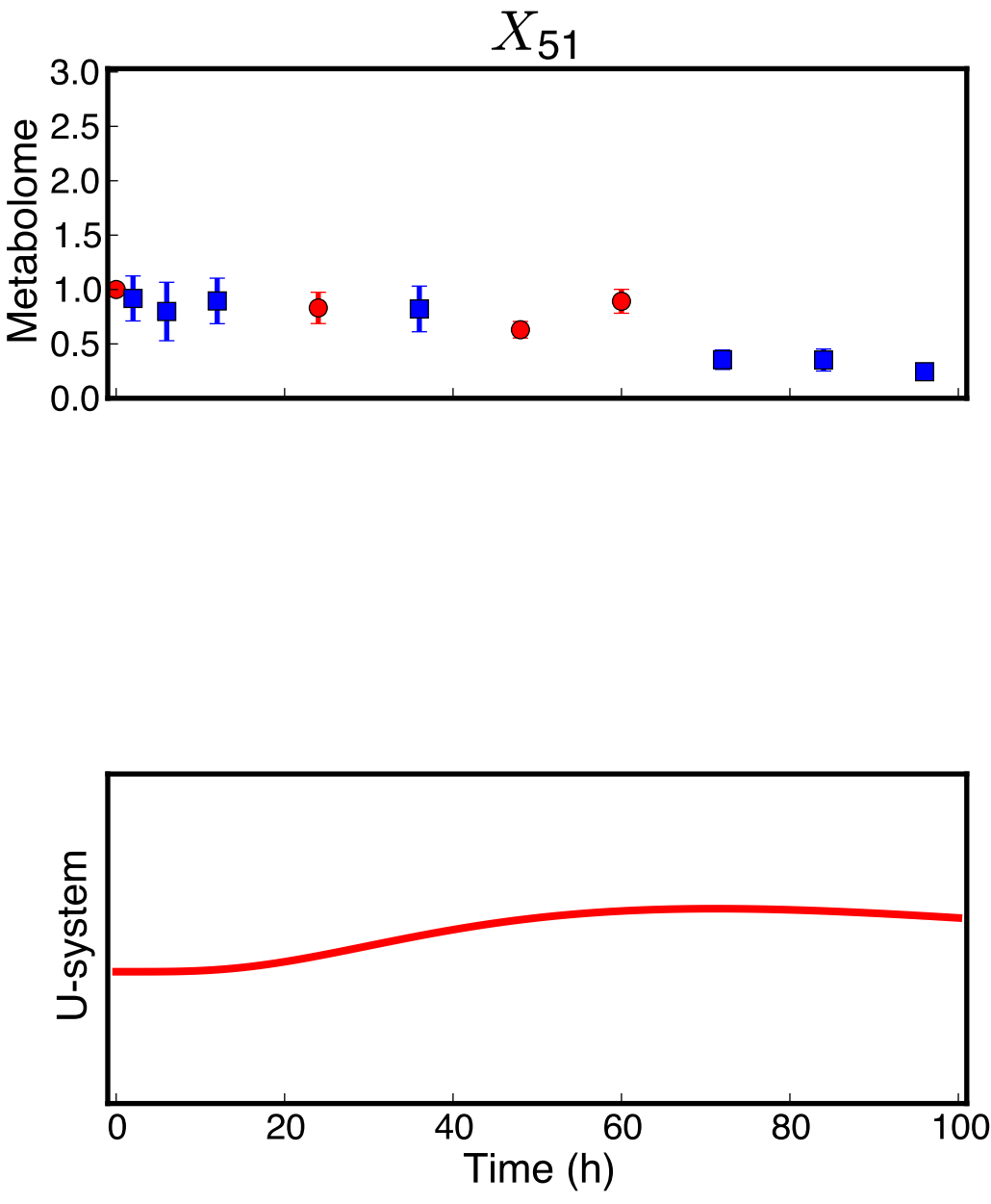

X_{46}
U-system
0
20
40
60
80
100
Time (h)

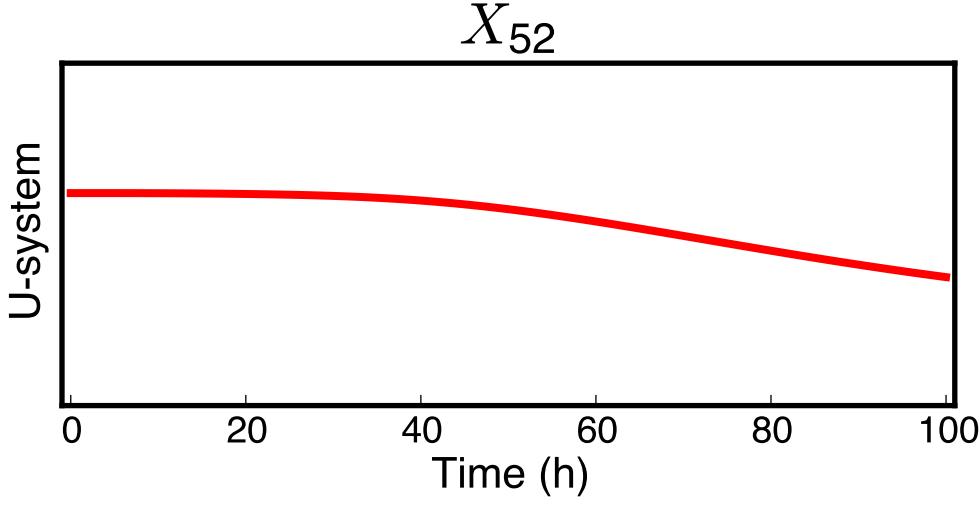

X_{47}
U-system
0
20
40
60
80
100
Time (h)

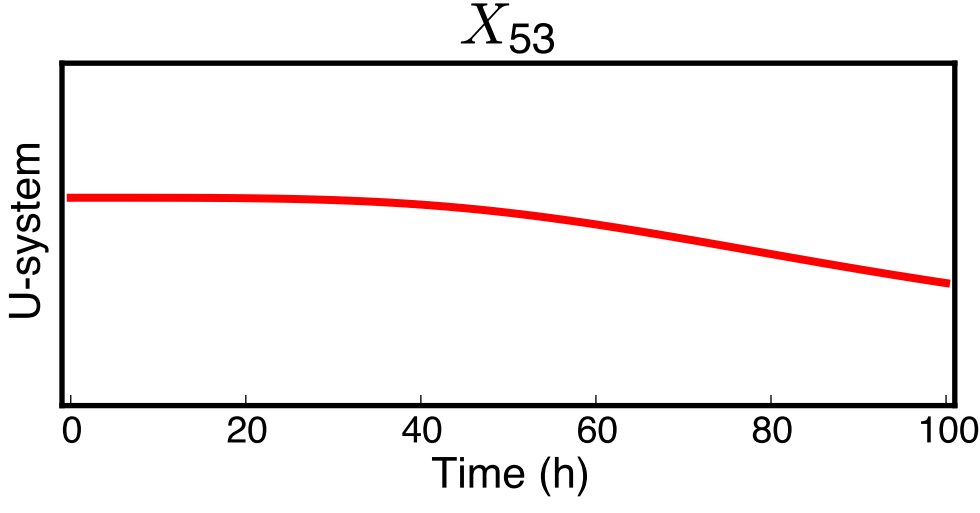

X_{48}
U-system
0
20
40
60
80
100
Time (h)

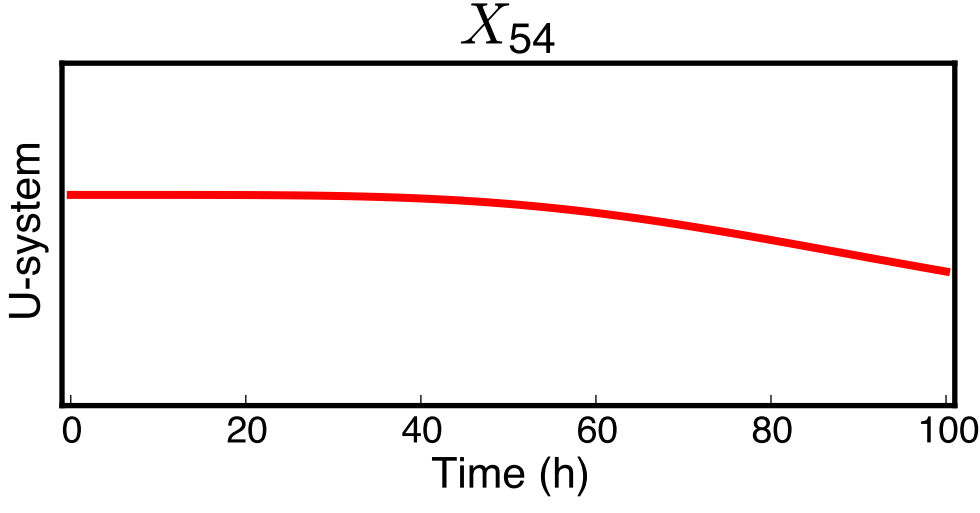

X_{49}
U-system
0
20
40
60
80
100
Time (h)

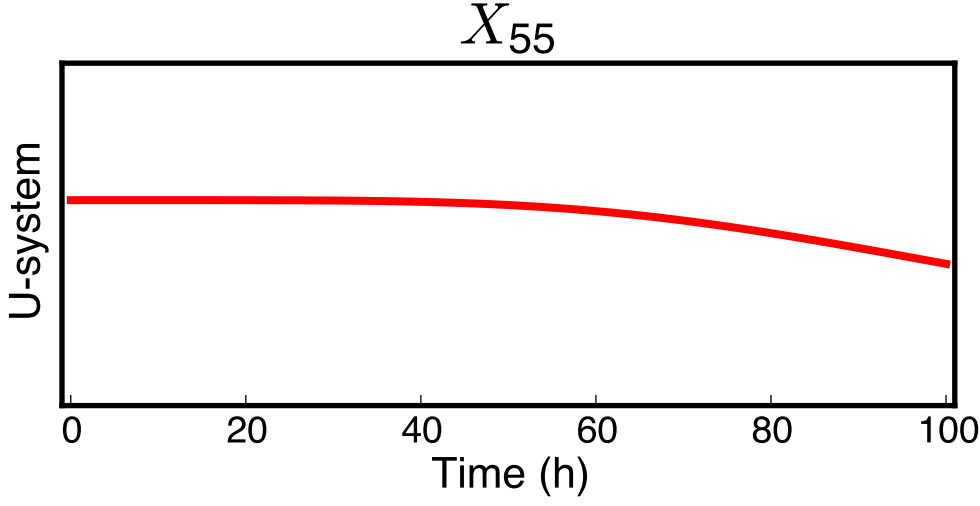

X_{50}
Metabolome
Amino acid
U-system
Time (h)
0
20
40
60
80
100

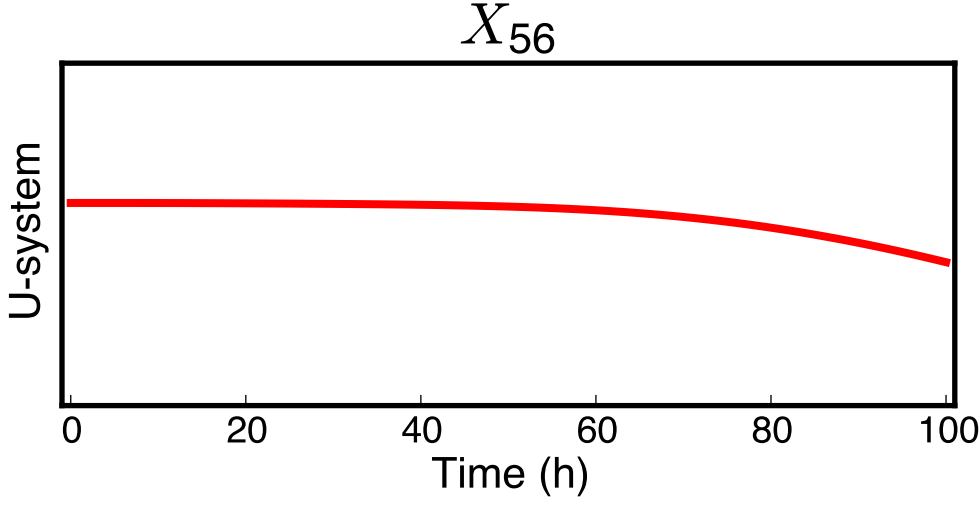

X_{51}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

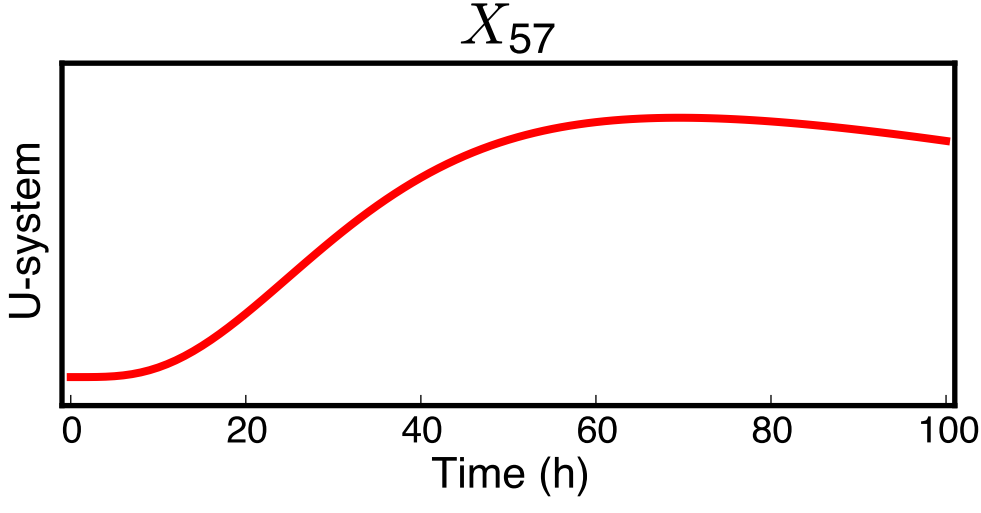

X_{52}
U-system
0
20
40
60
80
100
Time (h)

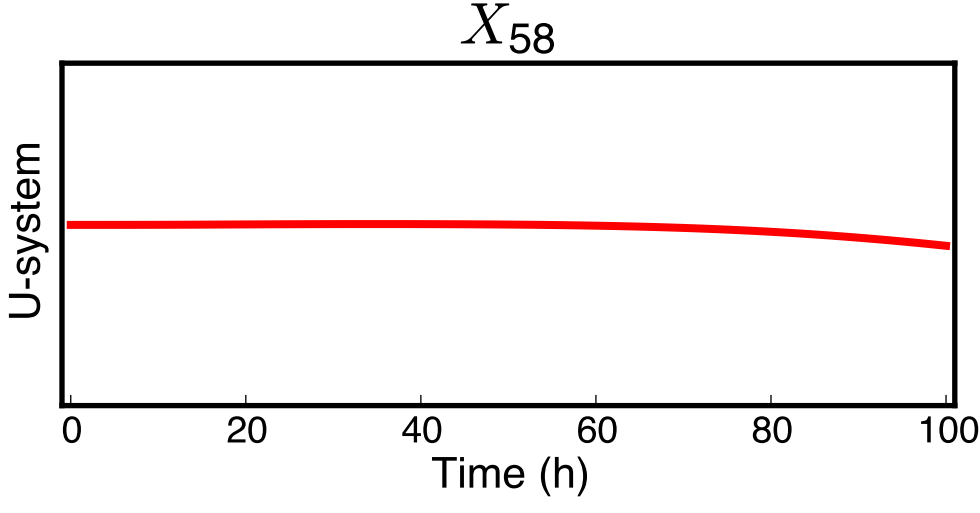

X_{53}
U-system
0
20
40
60
80
100
Time (h)

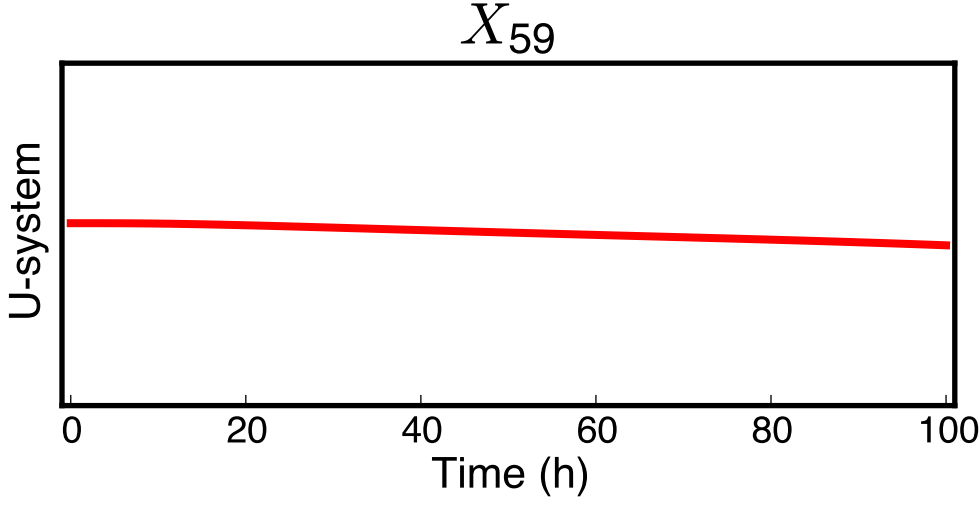

X_{54}
U-system
0
20
40
60
80
100
Time (h)

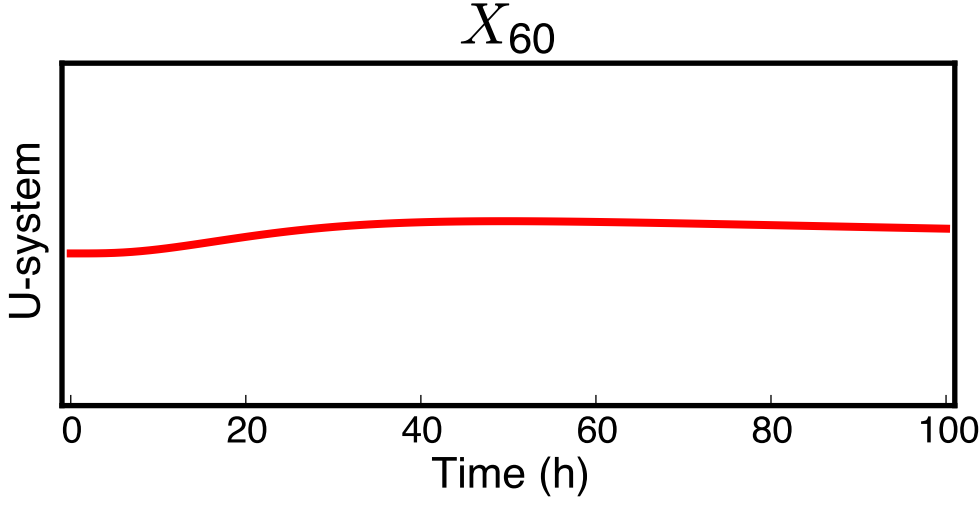

X_{55}
U-system
0
20
40
60
80
100
Time (h)

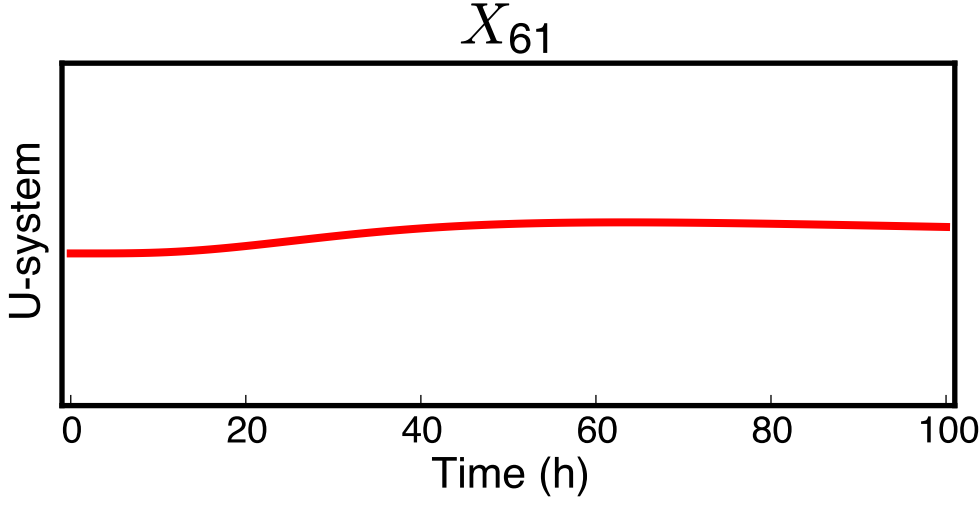

X_{56}
U-system
0
20
40
60
80
100
Time (h)

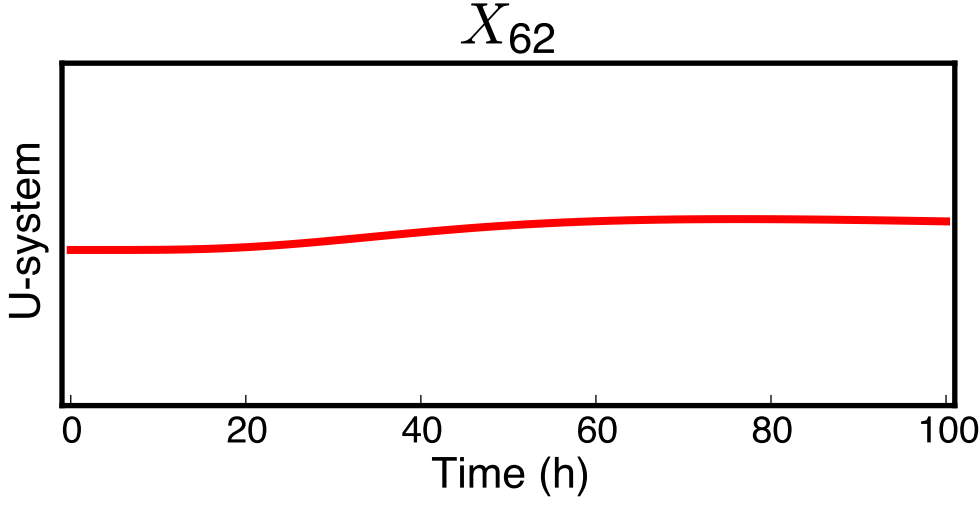

X_{57}
U-system
0
20
40
60
80
100
Time (h)

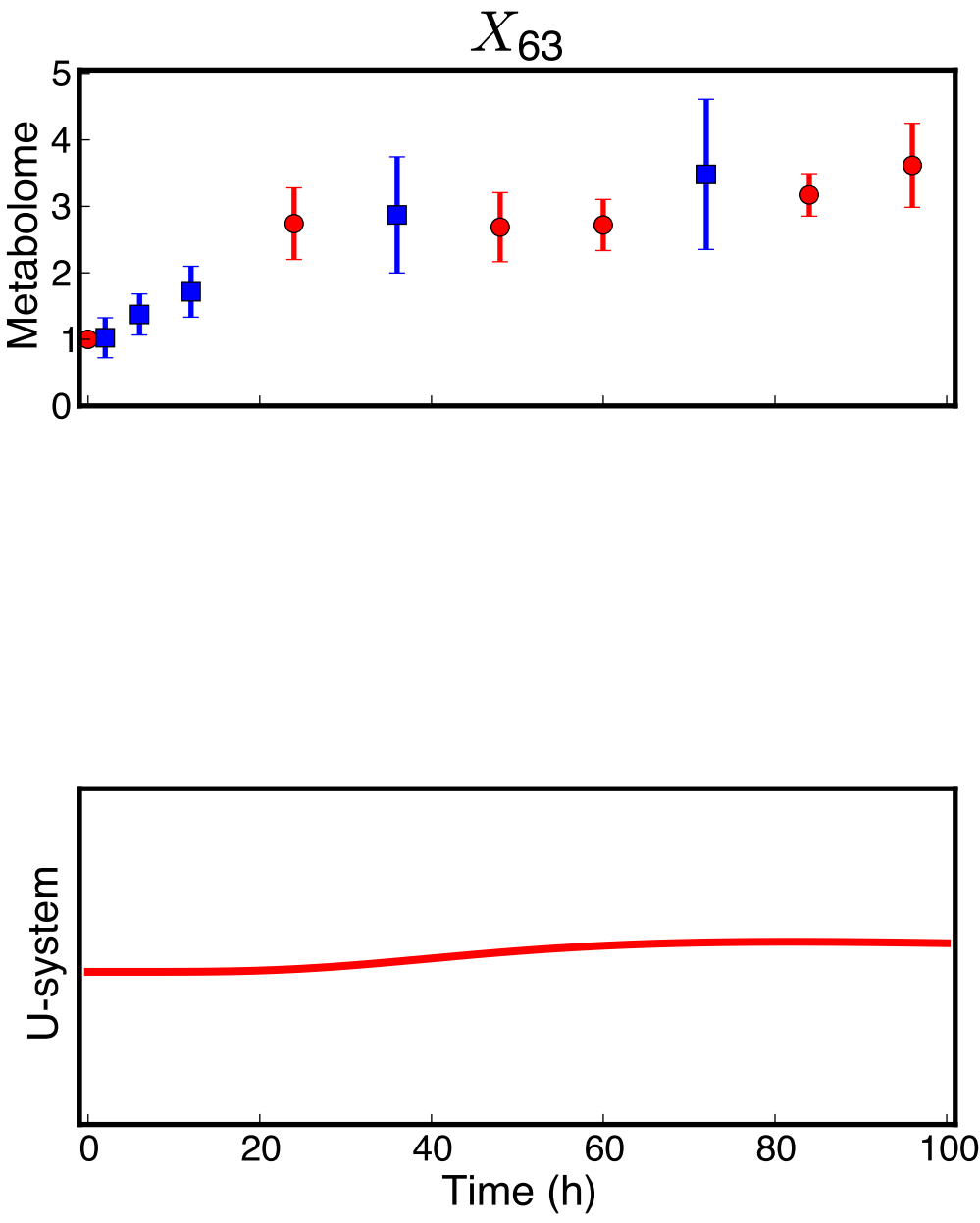

X_{58}
U-system
0
20
40
60
80
100
Time (h)

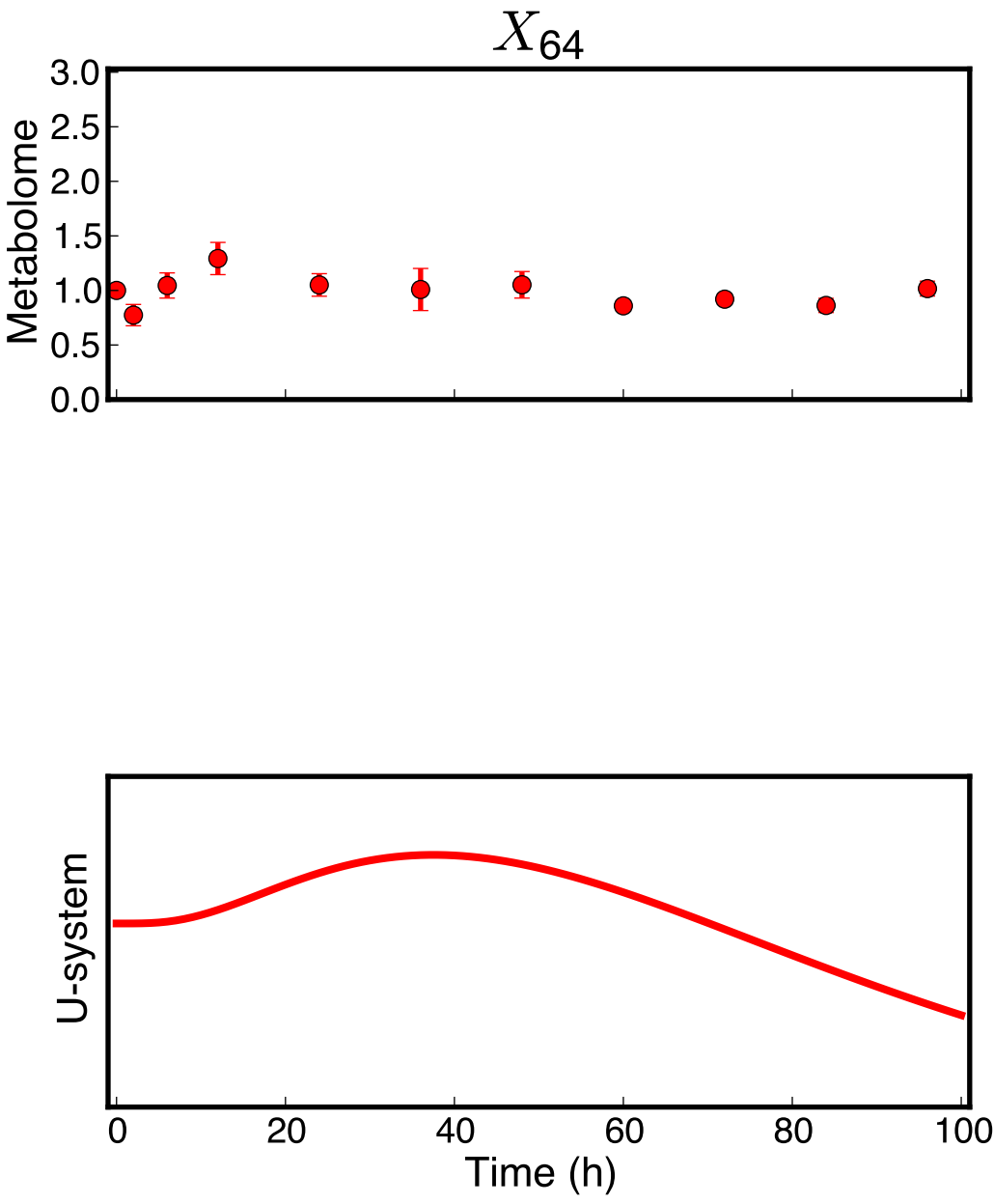

X_{59}
U-system
0
20
40
60
80
100
Time (h)

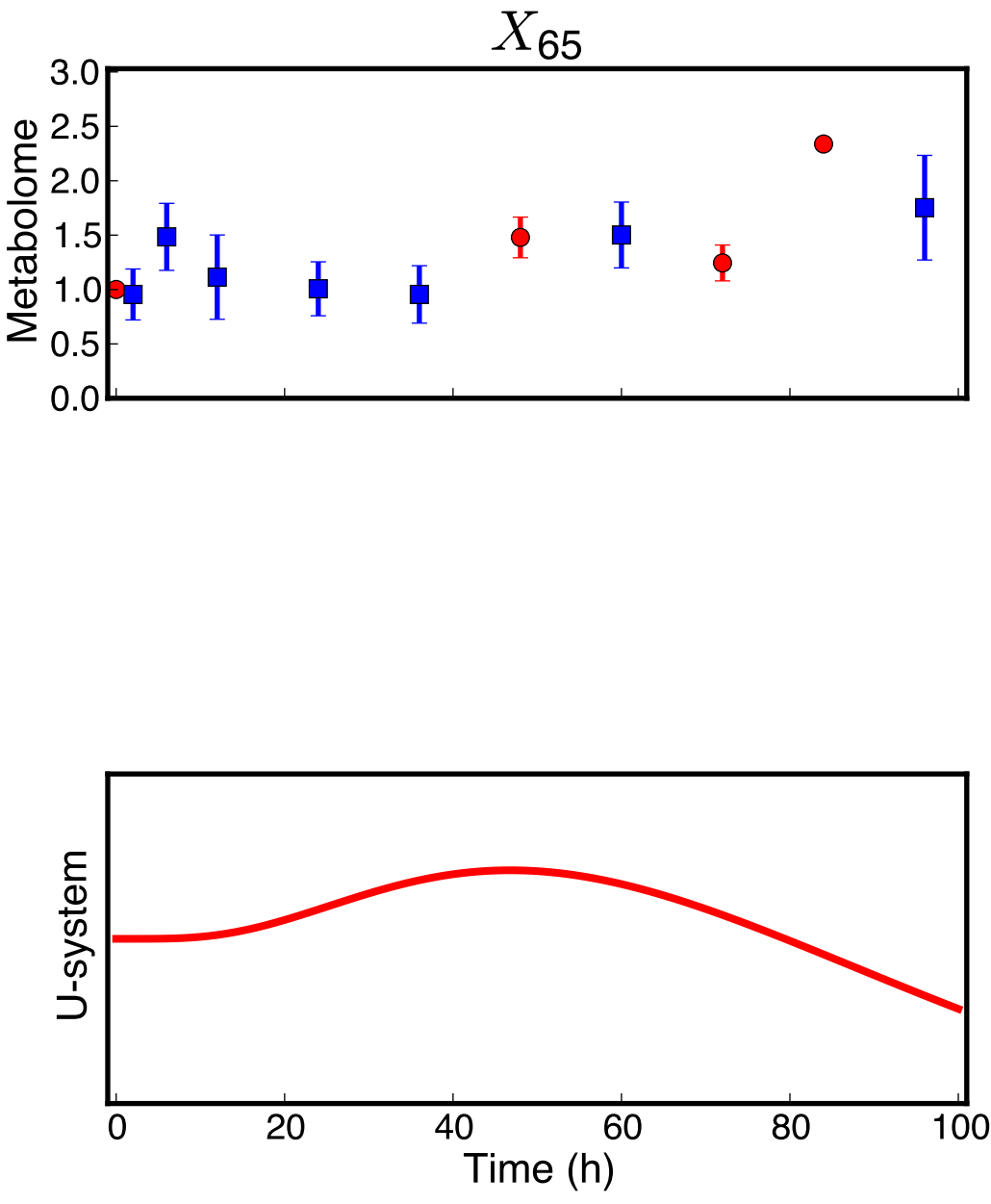

X_{60}
U-system
0
20
40
60
80
100
Time (h)

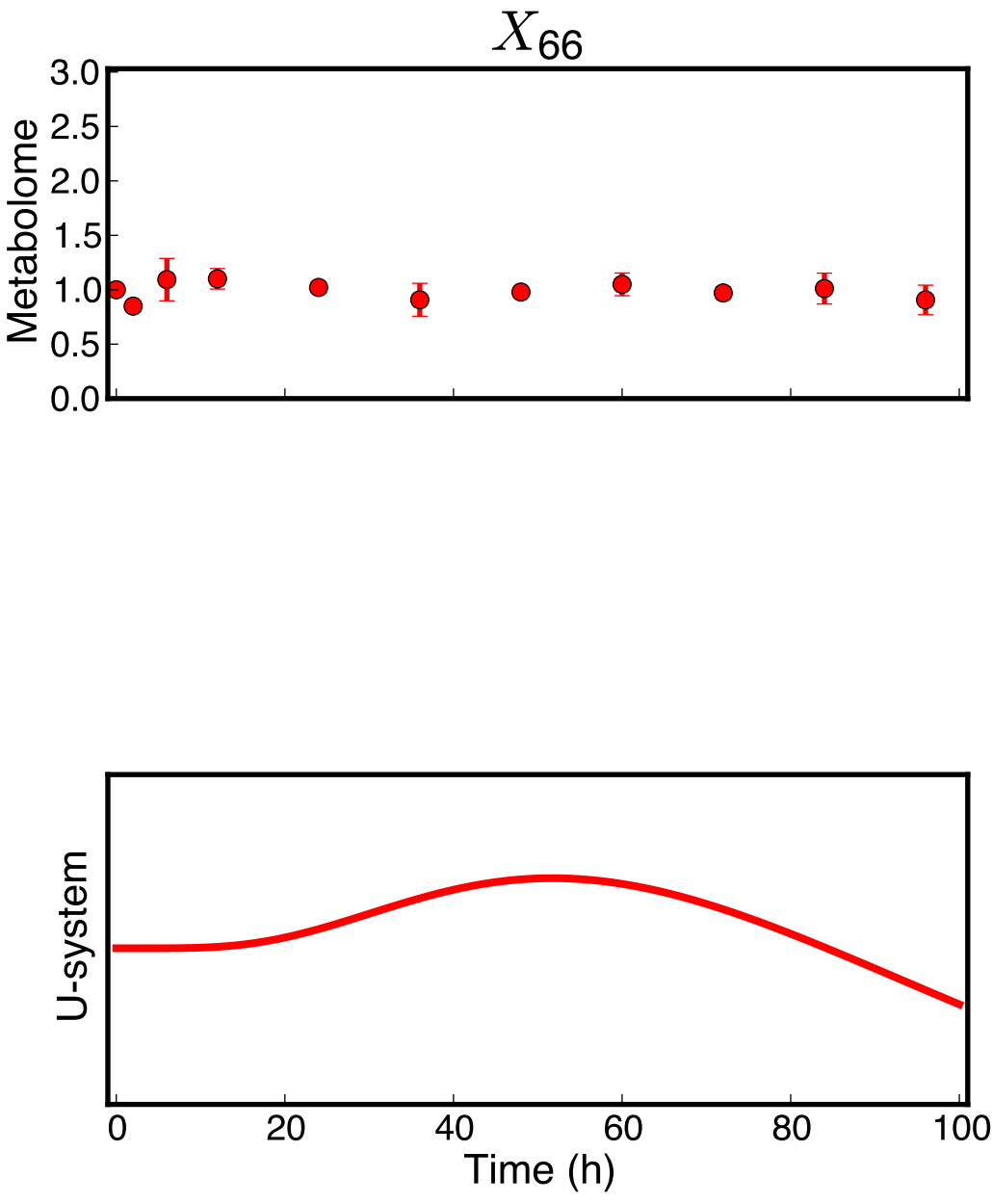

X_{61}
U-system
0
20
40
60
80
100
Time (h)

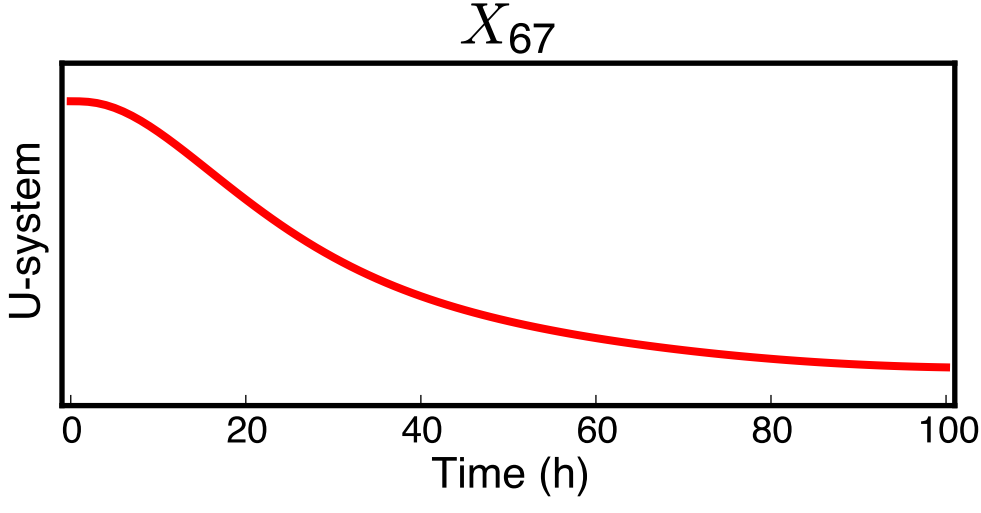

X_{62}
U-system
0
20
40
60
80
100
Time (h)

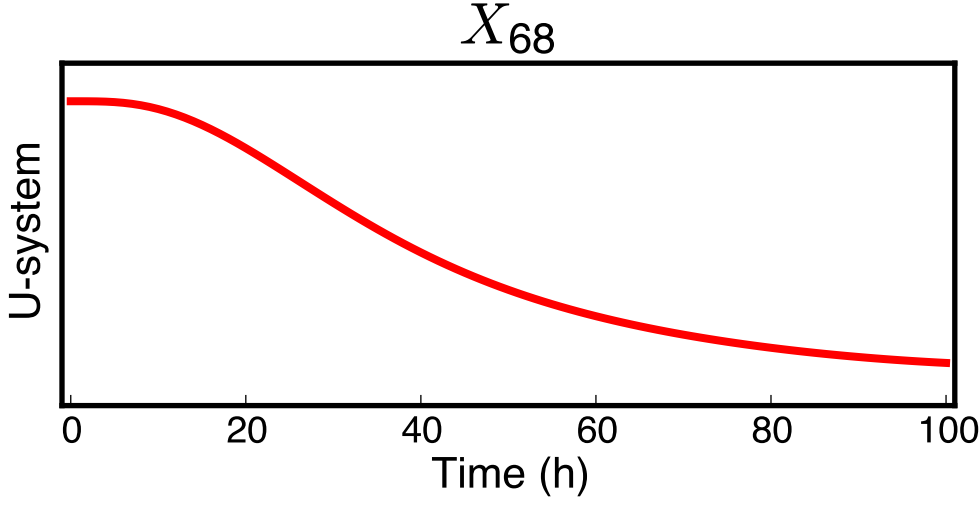

X_{63}
Metabolome
0
1
2
3
4
5
U-system
0
20
40
60
80
100
Time (h)

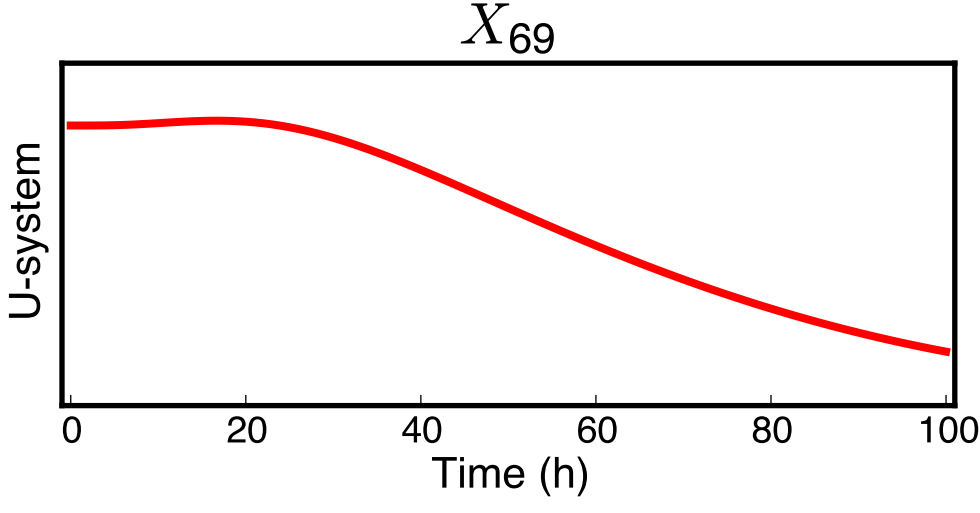

X_{64}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

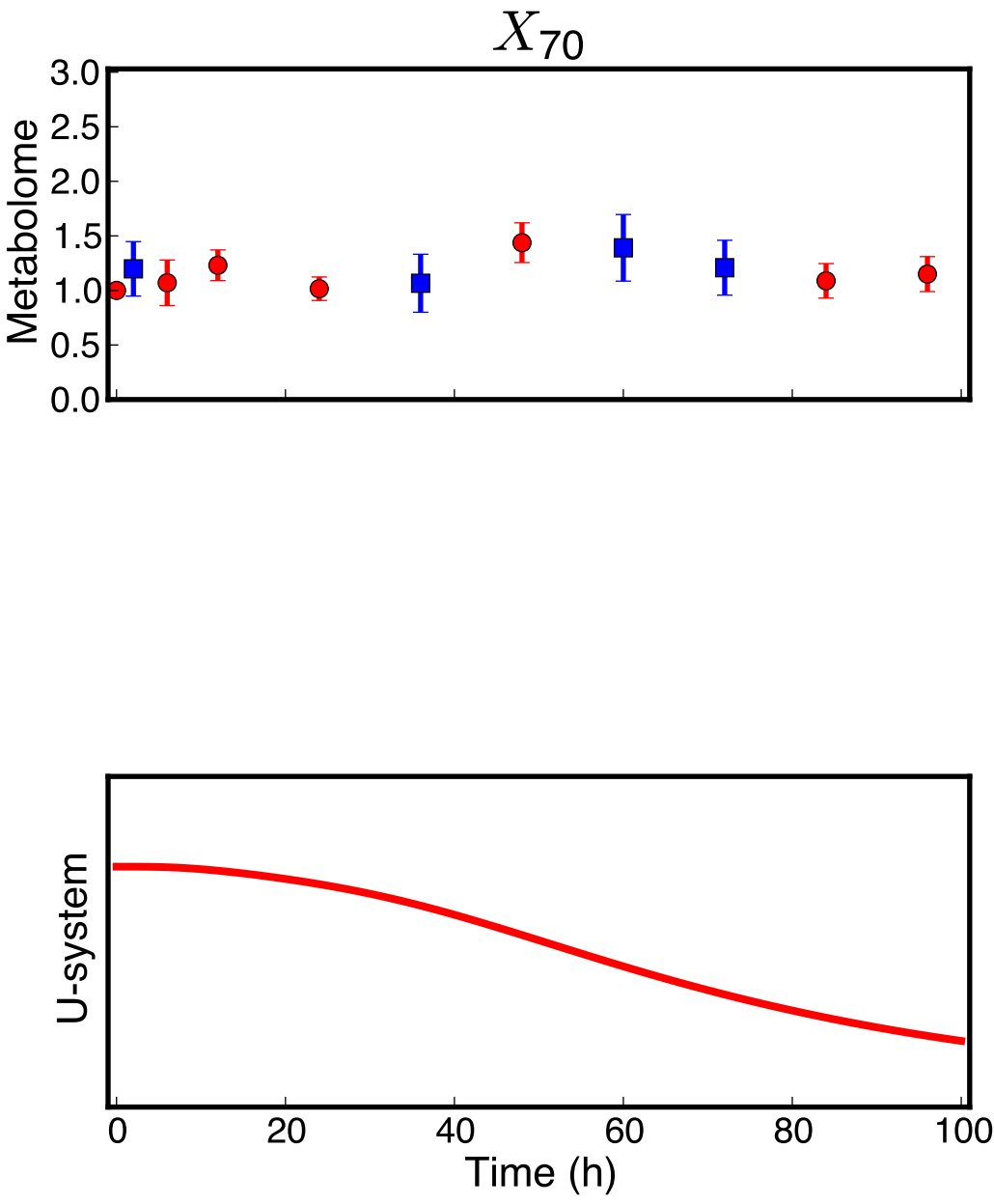

X_{65}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

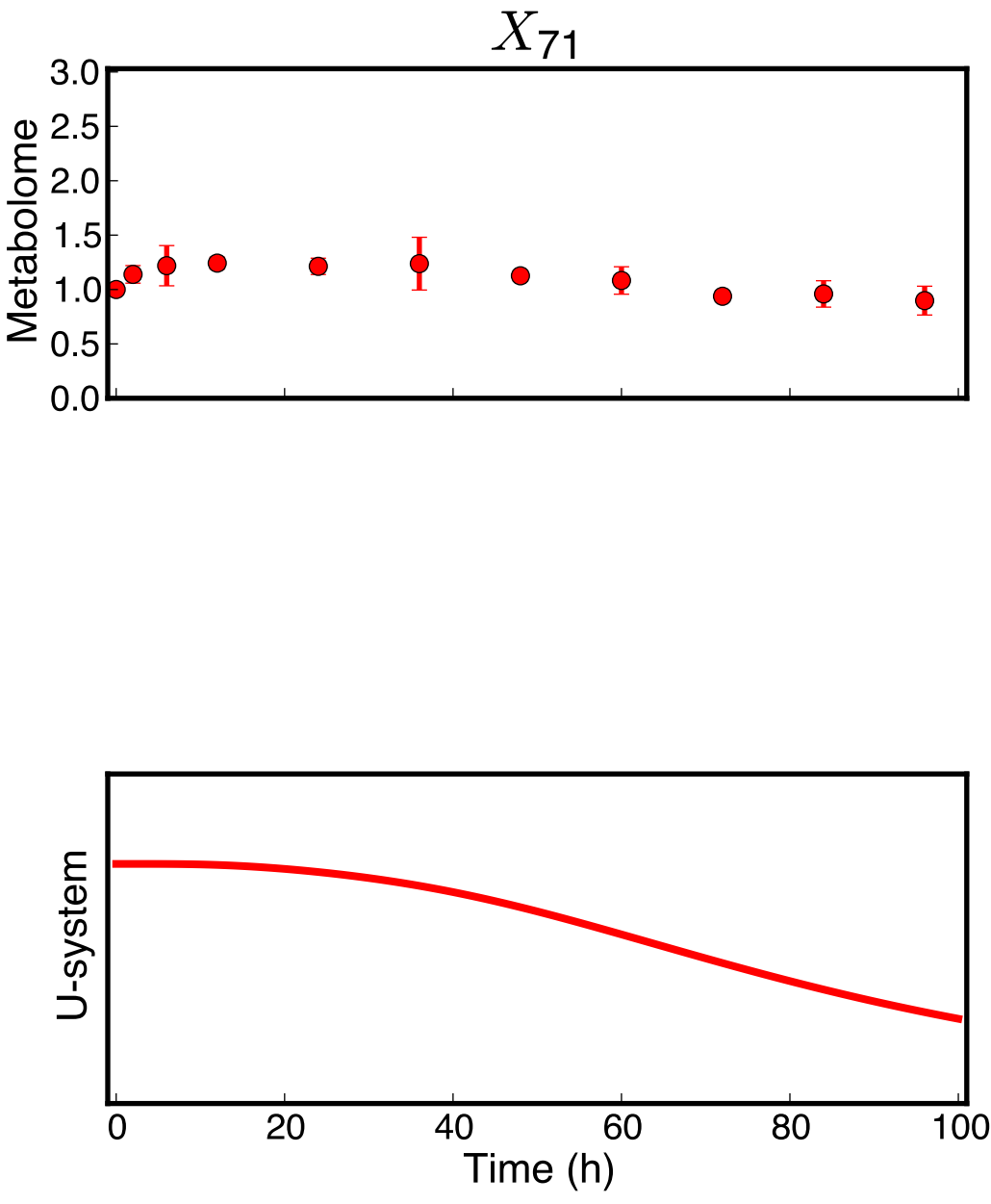

X_{66}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

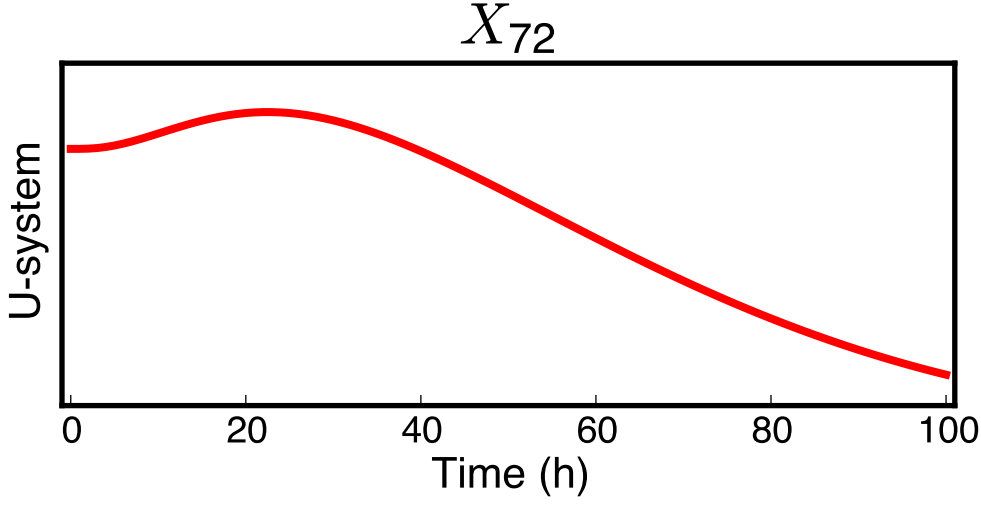

X_{67}
U-system
0
20
40
60
80
100
Time (h)

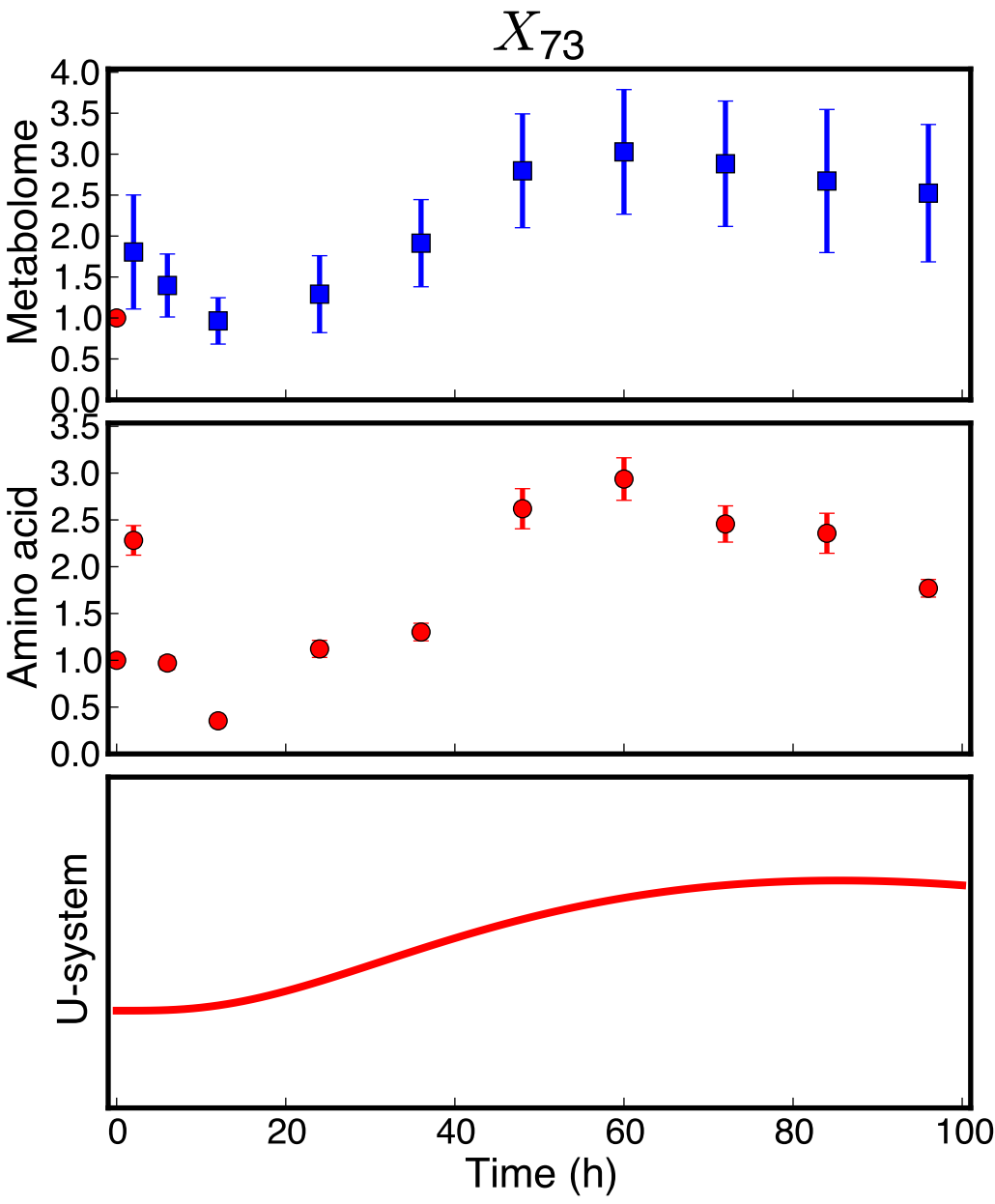

X_{68}
U-system
0
20
40
60
80
100
Time (h)

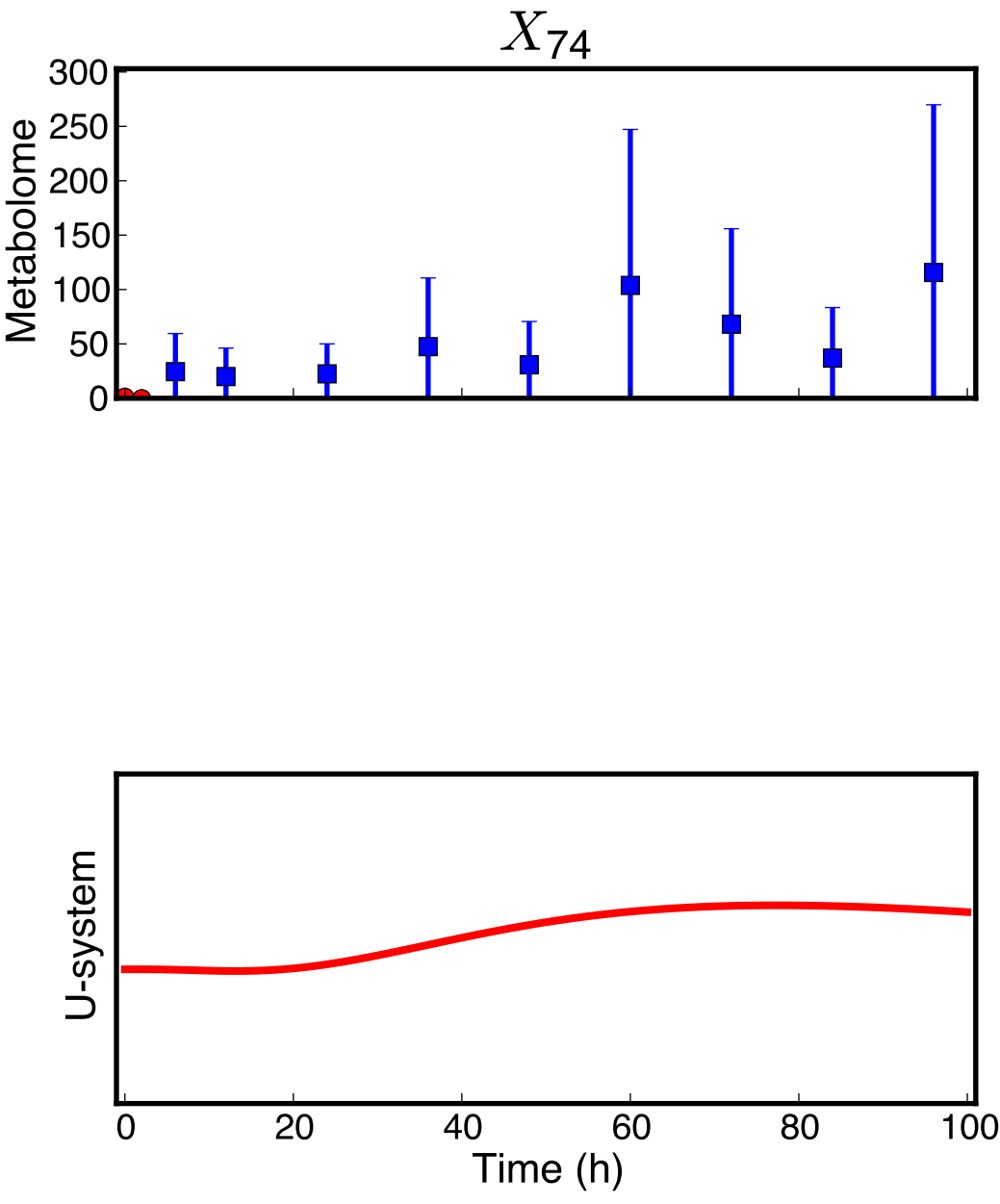

X_{69}
U-system
0
20
40
60
80
100
Time (h)

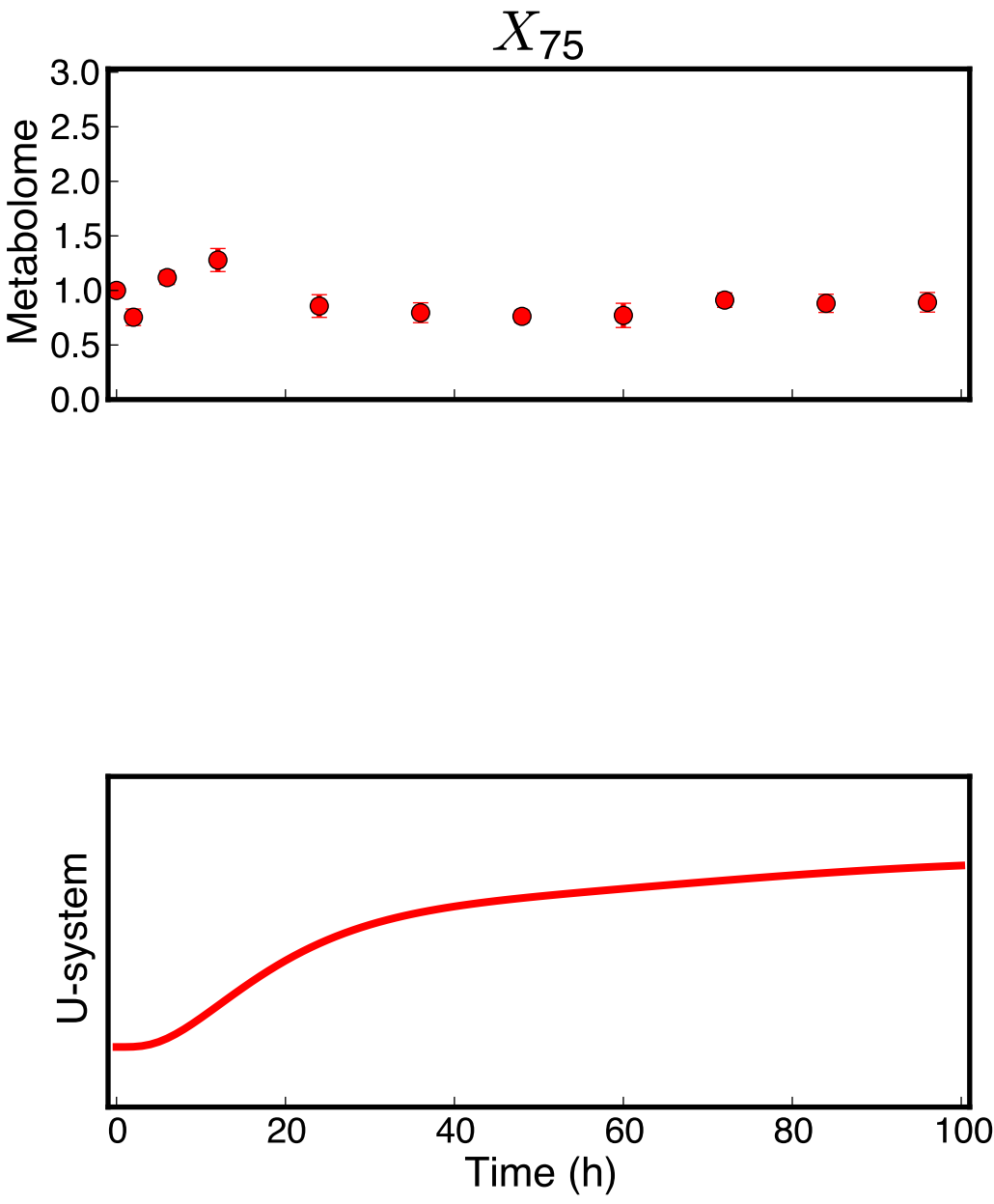

X_{70}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

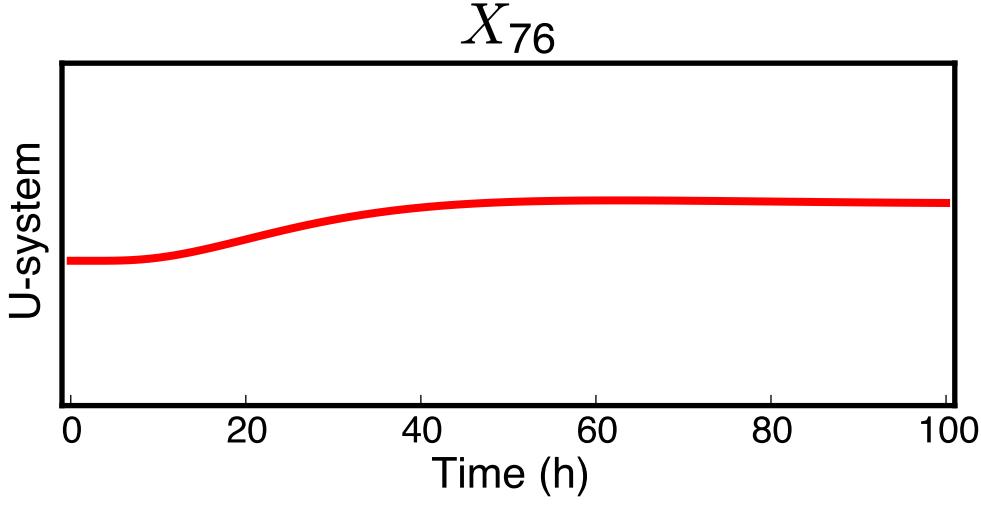

X_{71}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

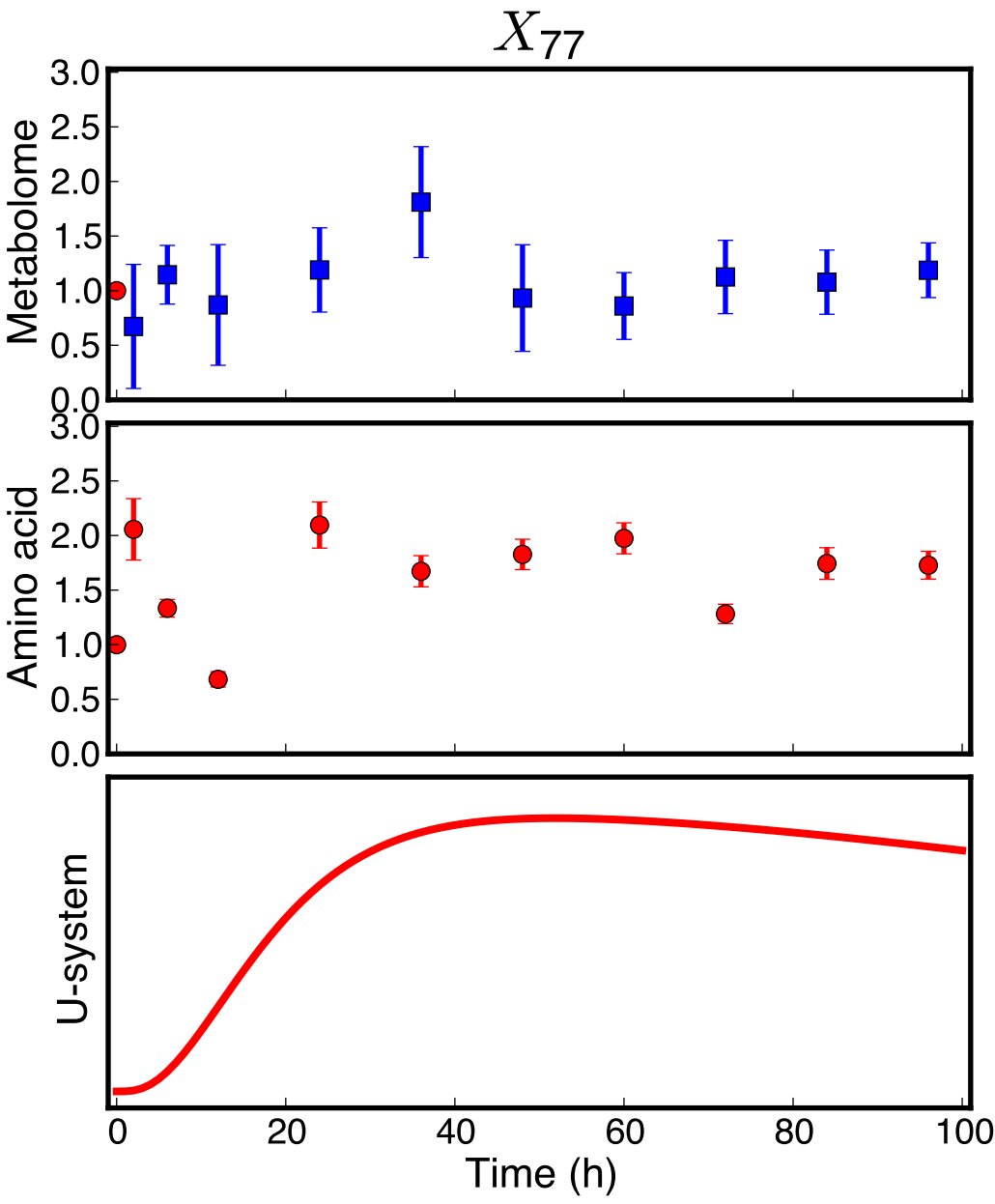

X_{72}
U-system
0
20
40
60
80
100
Time (h)

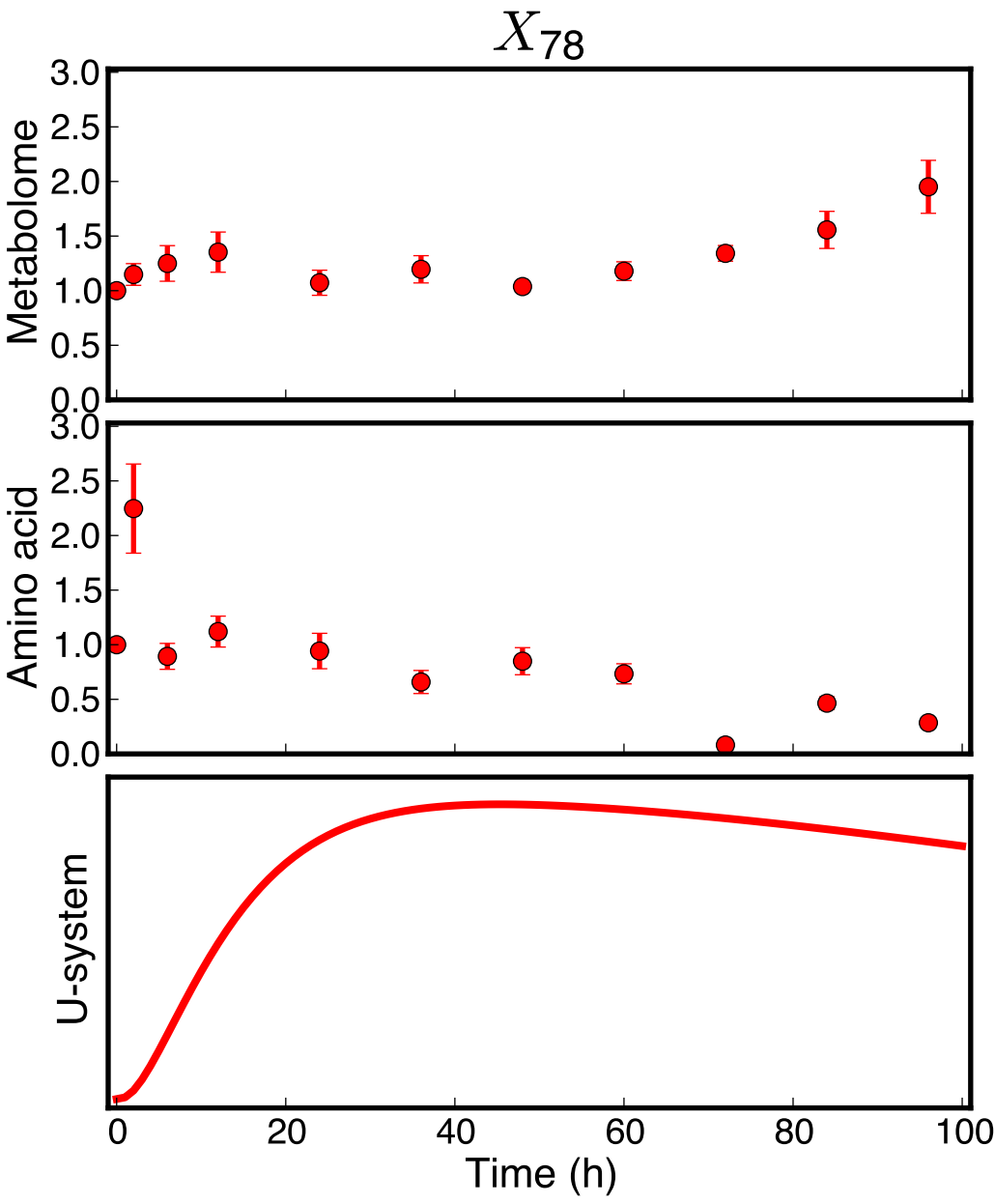

X_{73}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Amino acid
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

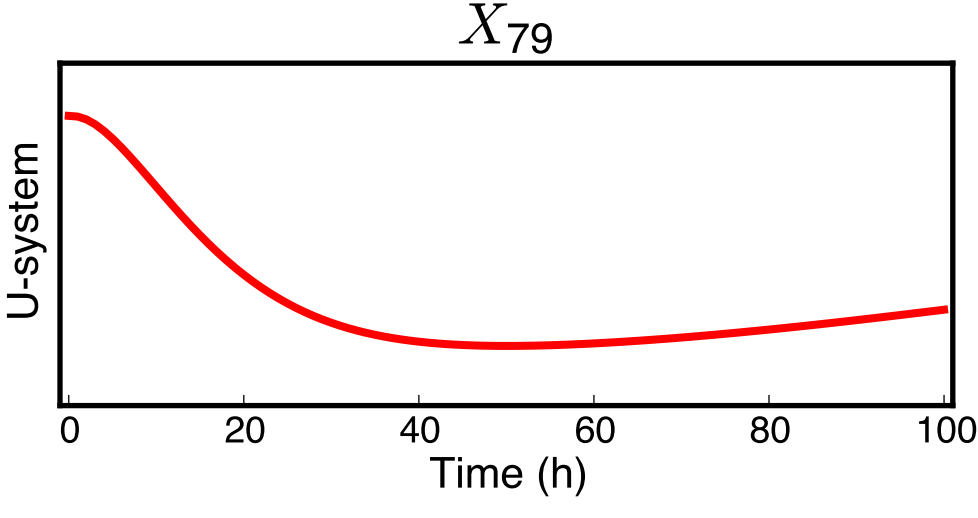

X_{74}
Metabolome
300
250
200
150
100
50
0
U-system
0
20
40
60
80
100
Time (h)

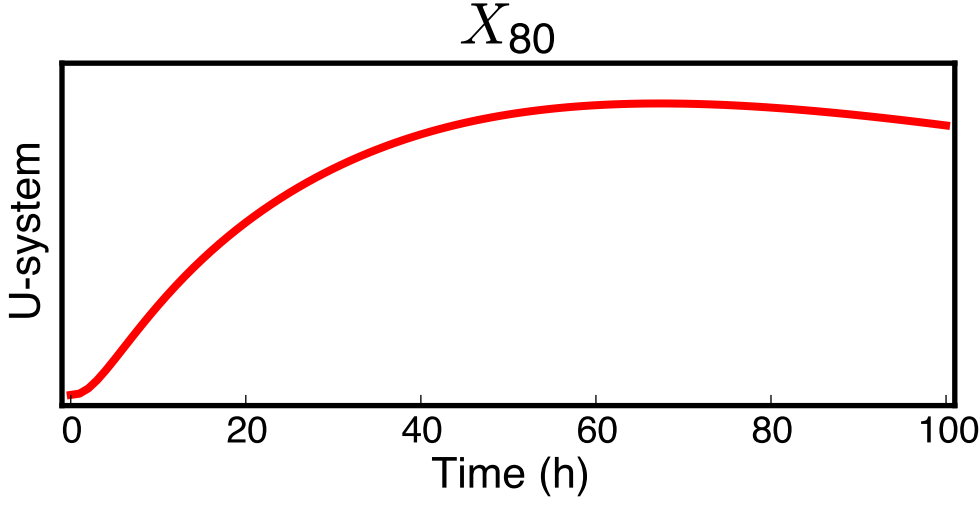

X_{75}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

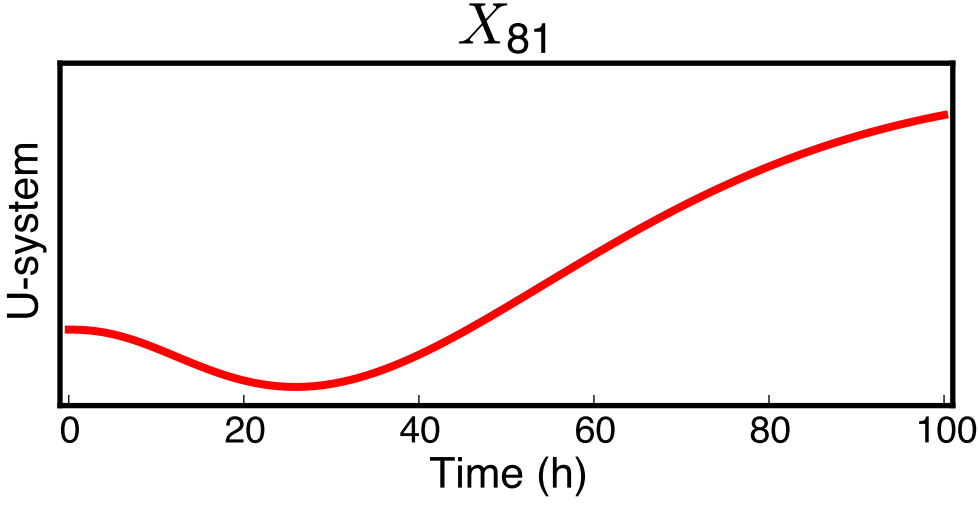

X_{76}
U-system
0
20
40
60
80
100
Time (h)

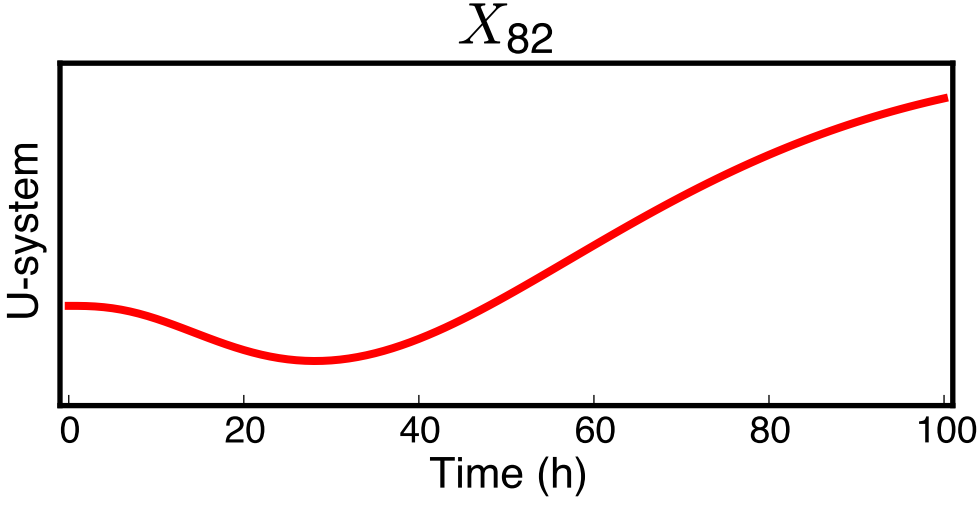

X_{77}
Metabolome
Amino acid
U-system
Time (h)
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0

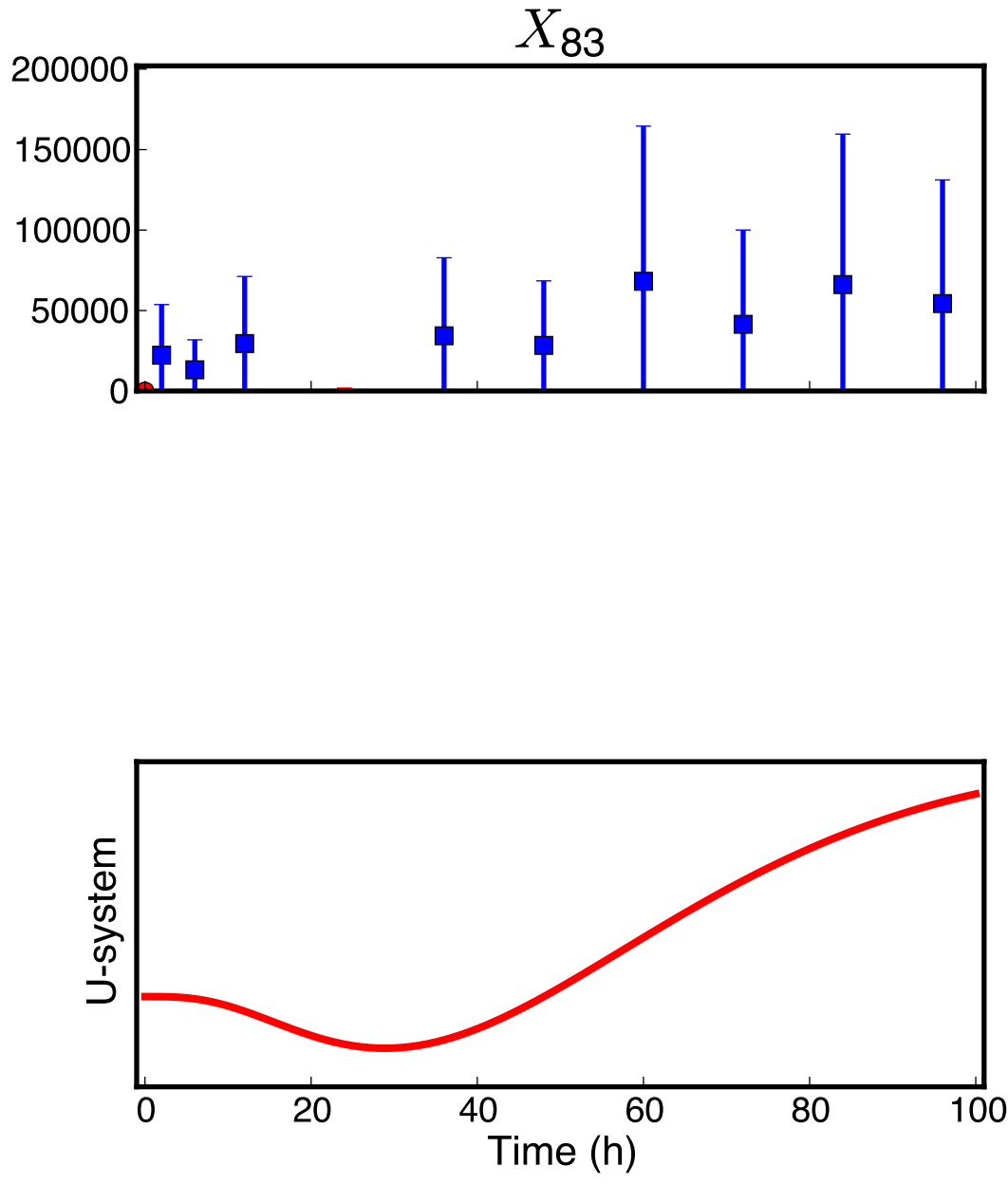

X_{78}
Metabolome
Amino acid
U-system
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

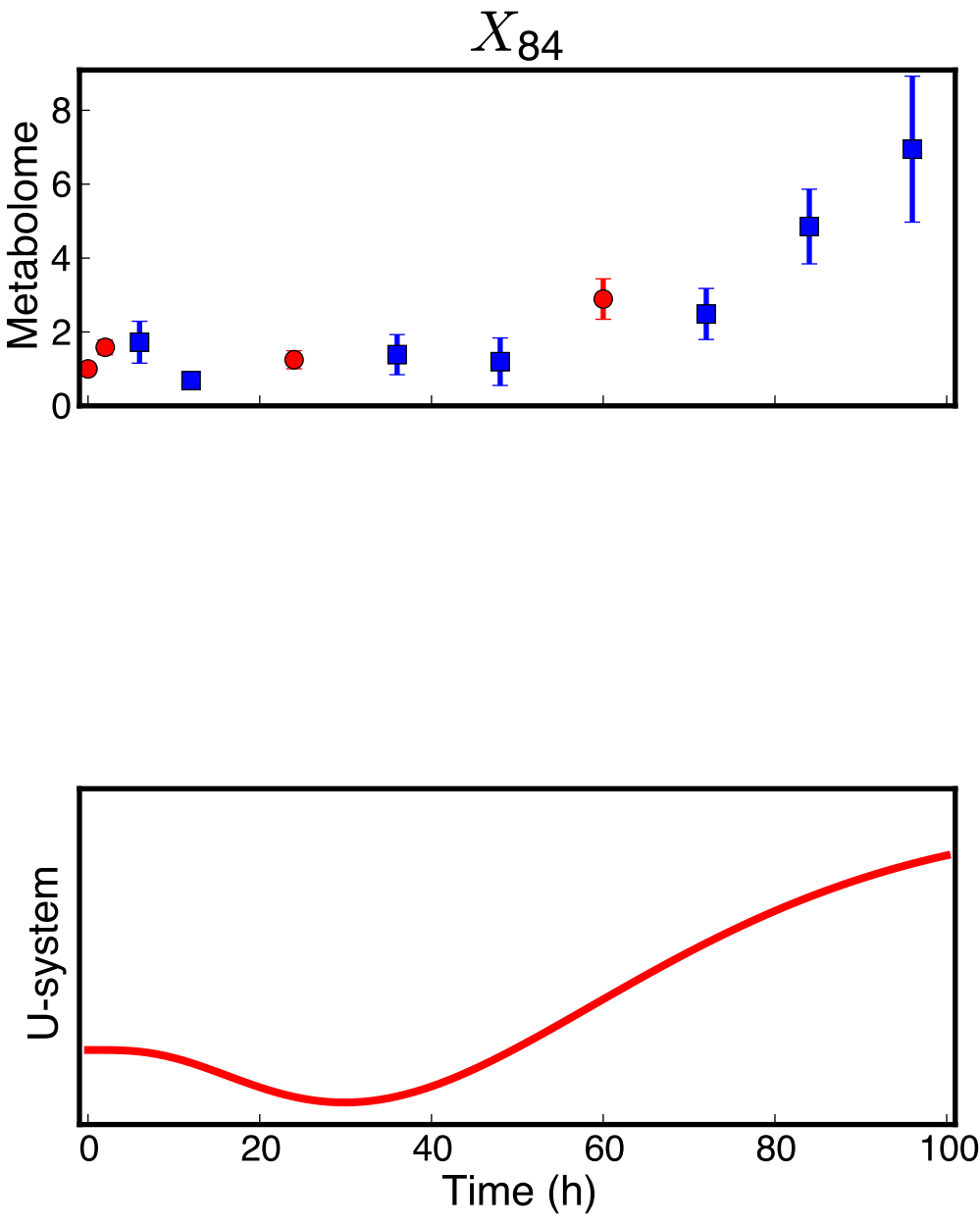

X_{79}
U-system
0
20
40
60
80
100
Time (h)

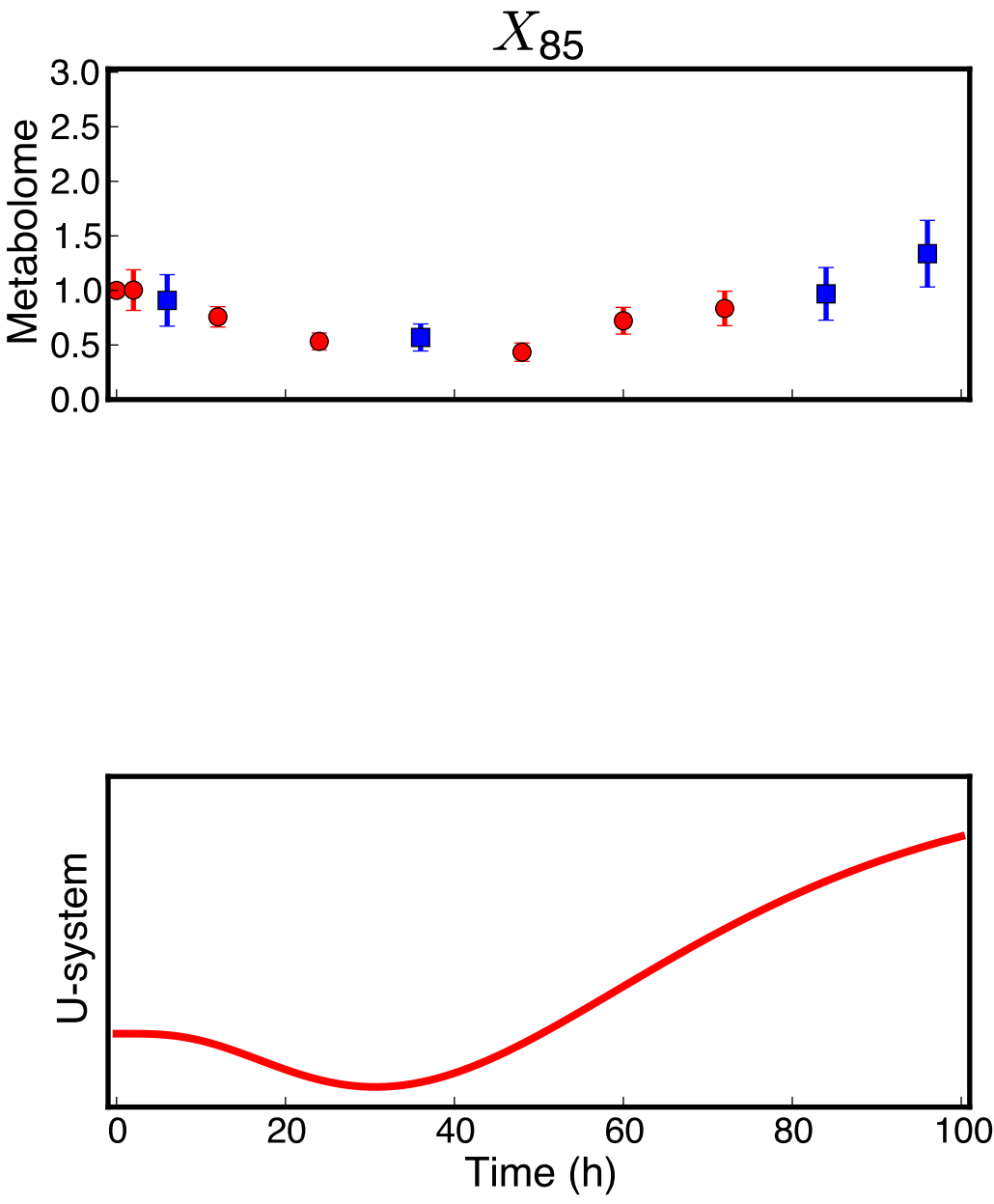

X_{80}
U-system
0
20
40
60
80
100
Time (h)

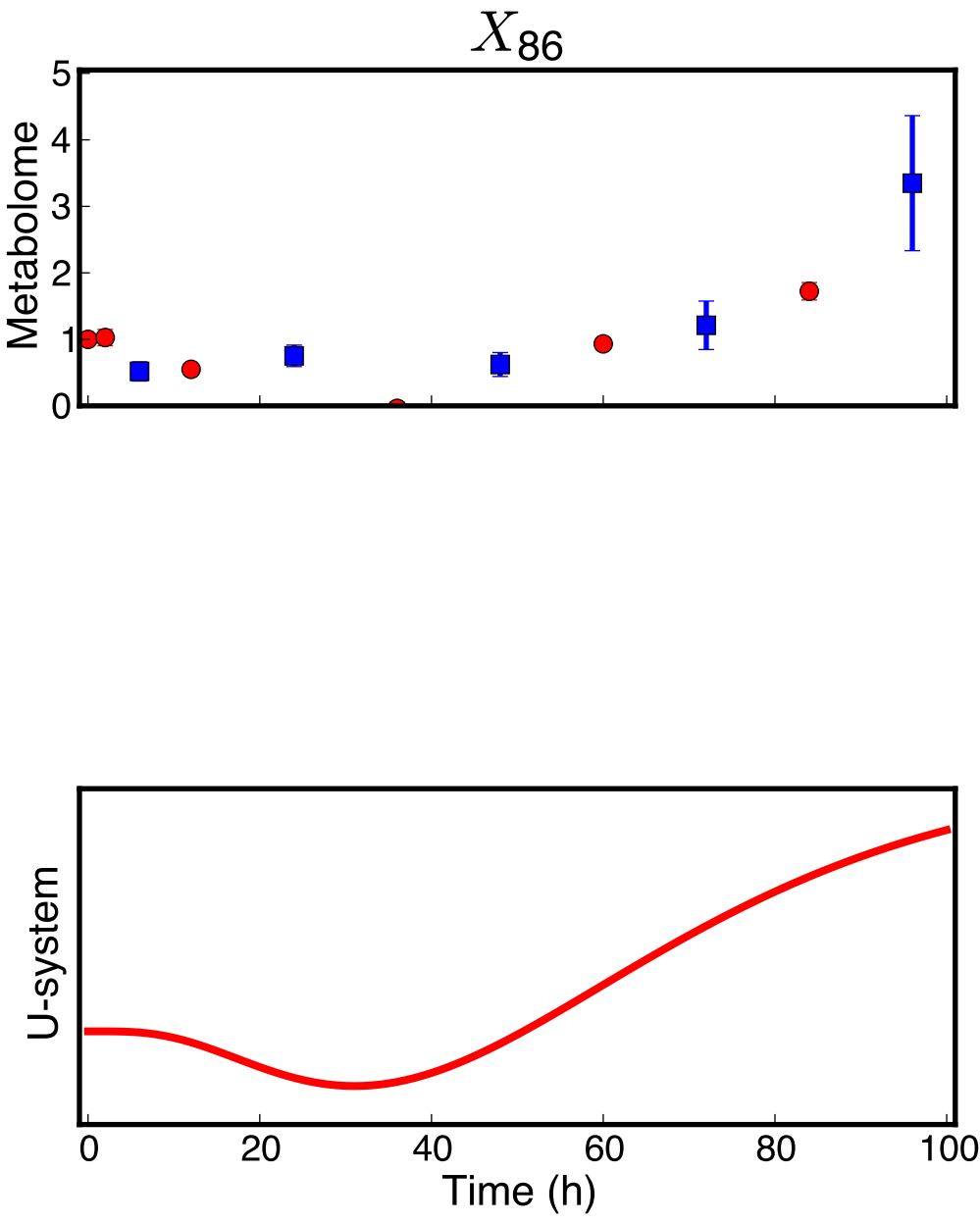

X_{81}
U-system
0
20
40
60
80
100
Time (h)

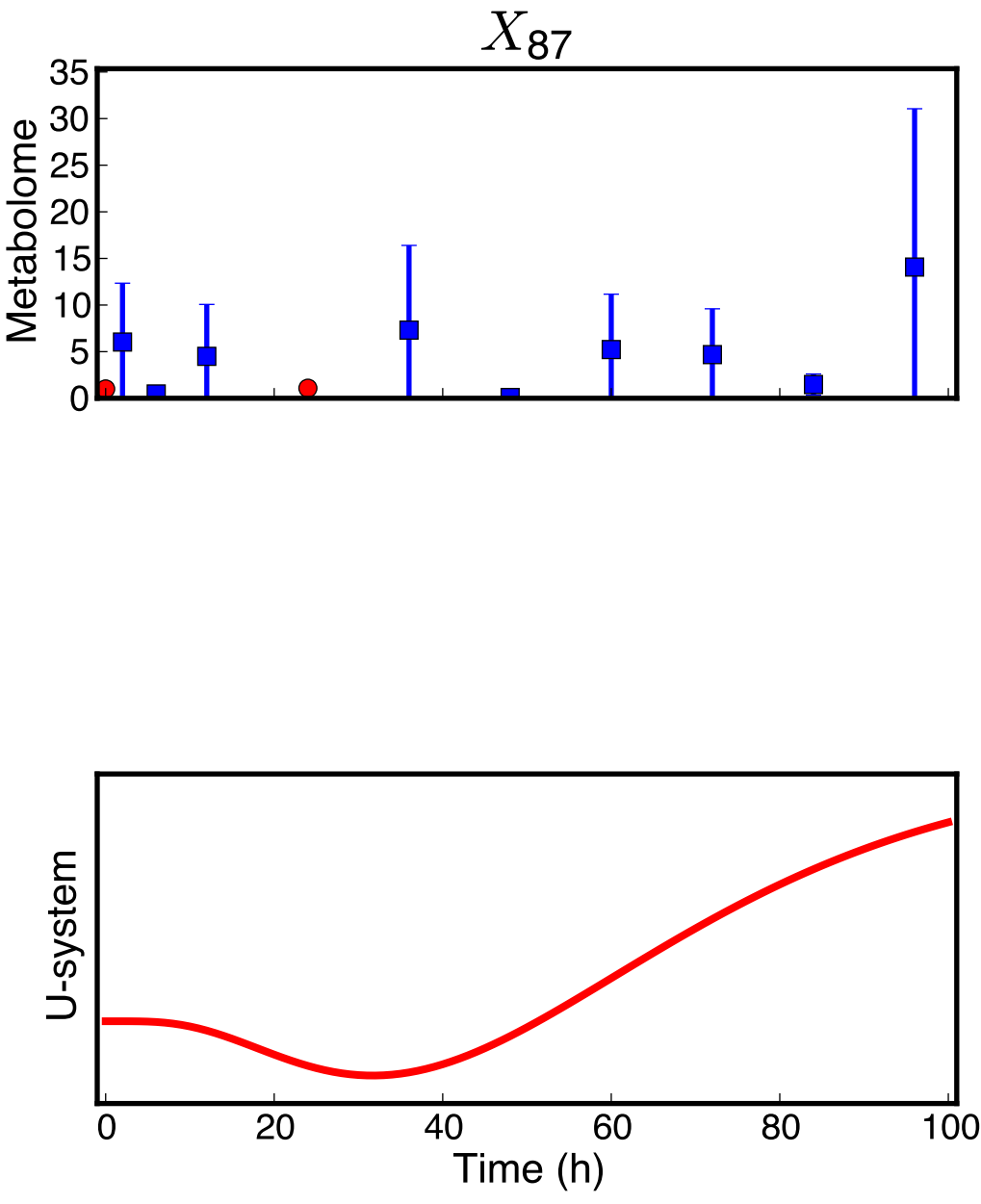

X_{82}
U-system
0
20
40
60
80
100
Time (h)

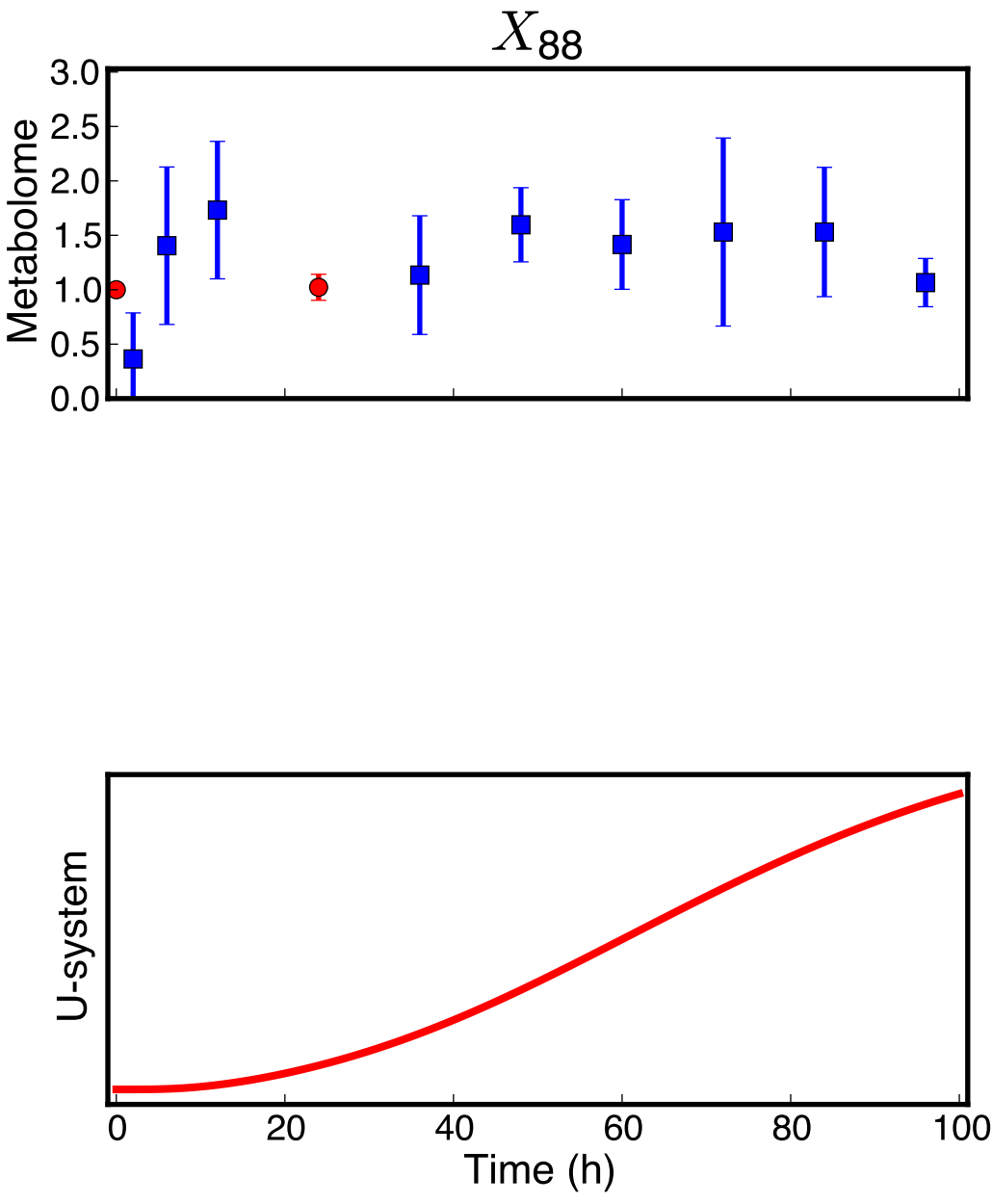

X_{83}
200000
150000
100000
50000
0
U-system
0
20
40
60
80
100
Time (h)

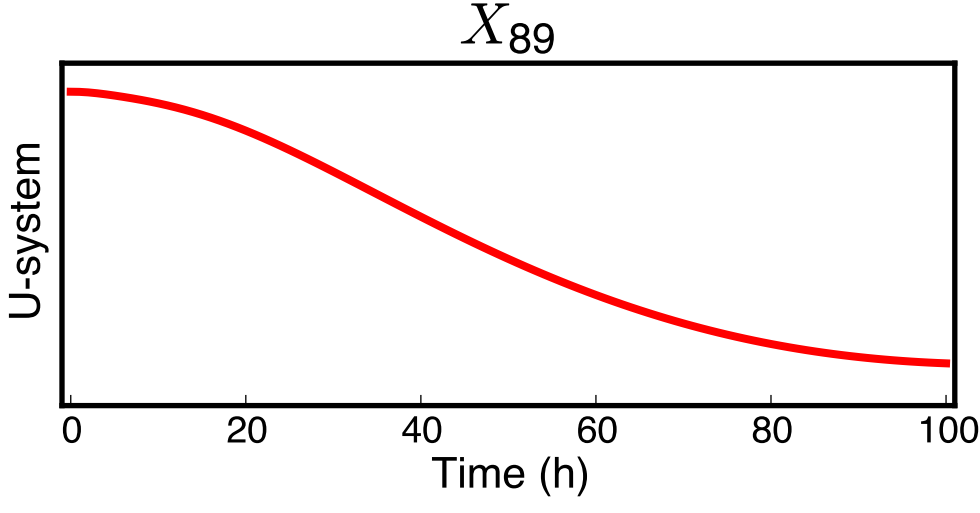

X_{84}
Metabolome
0
2
4
6
8
U-system
0
20
40
60
80
100
Time (h)

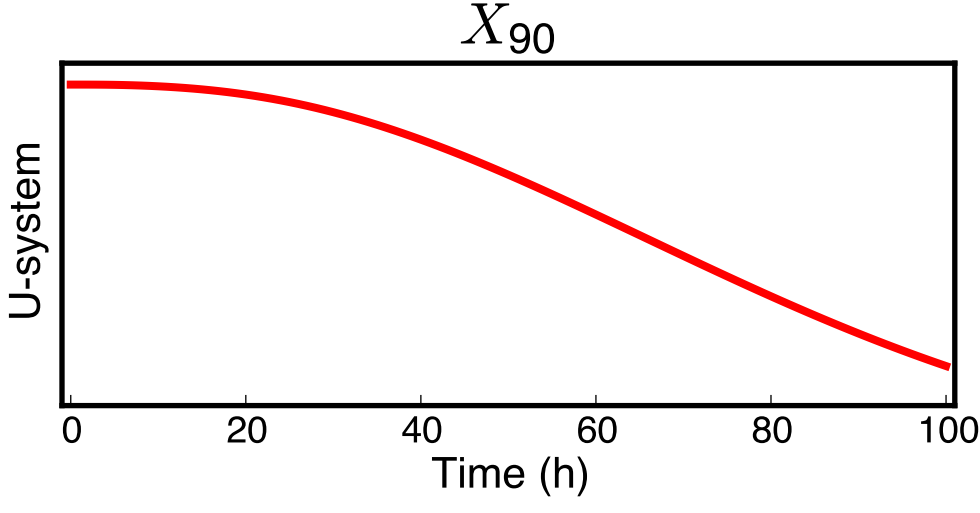

X_{85}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

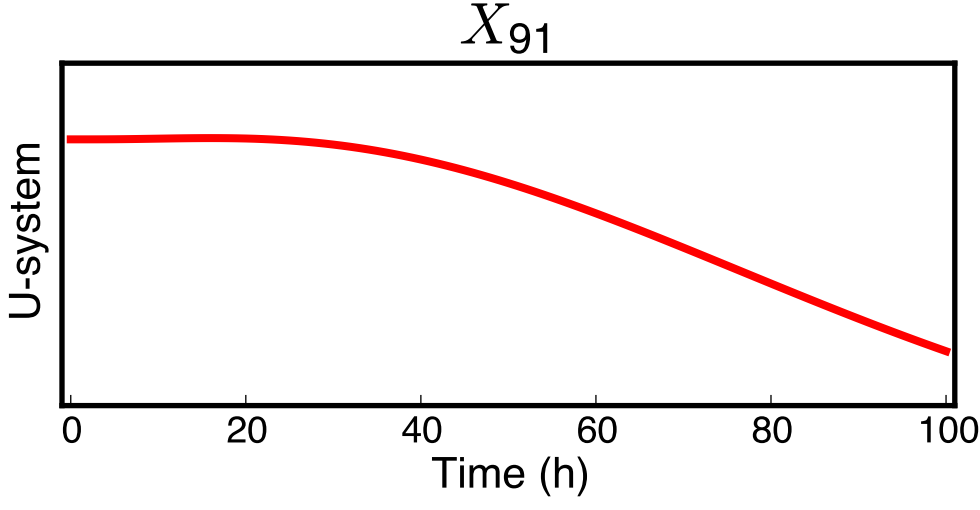

X_{86}
Metabolome
0
1
2
3
4
5
U-system
0
20
40
60
80
100
Time (h)

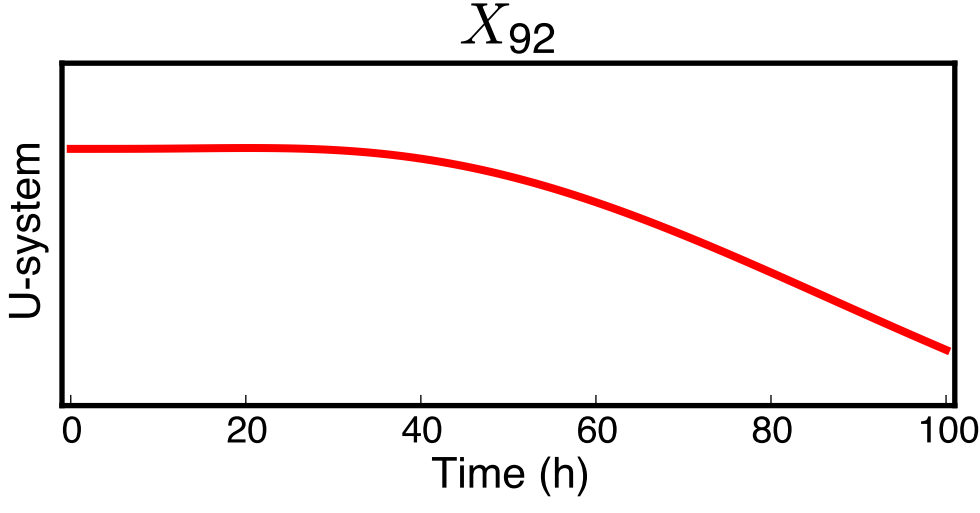

X_{87}
Metabolome
35
30
25
20
15
10
5
0
U-system
0
20
40
60
80
100
Time (h)

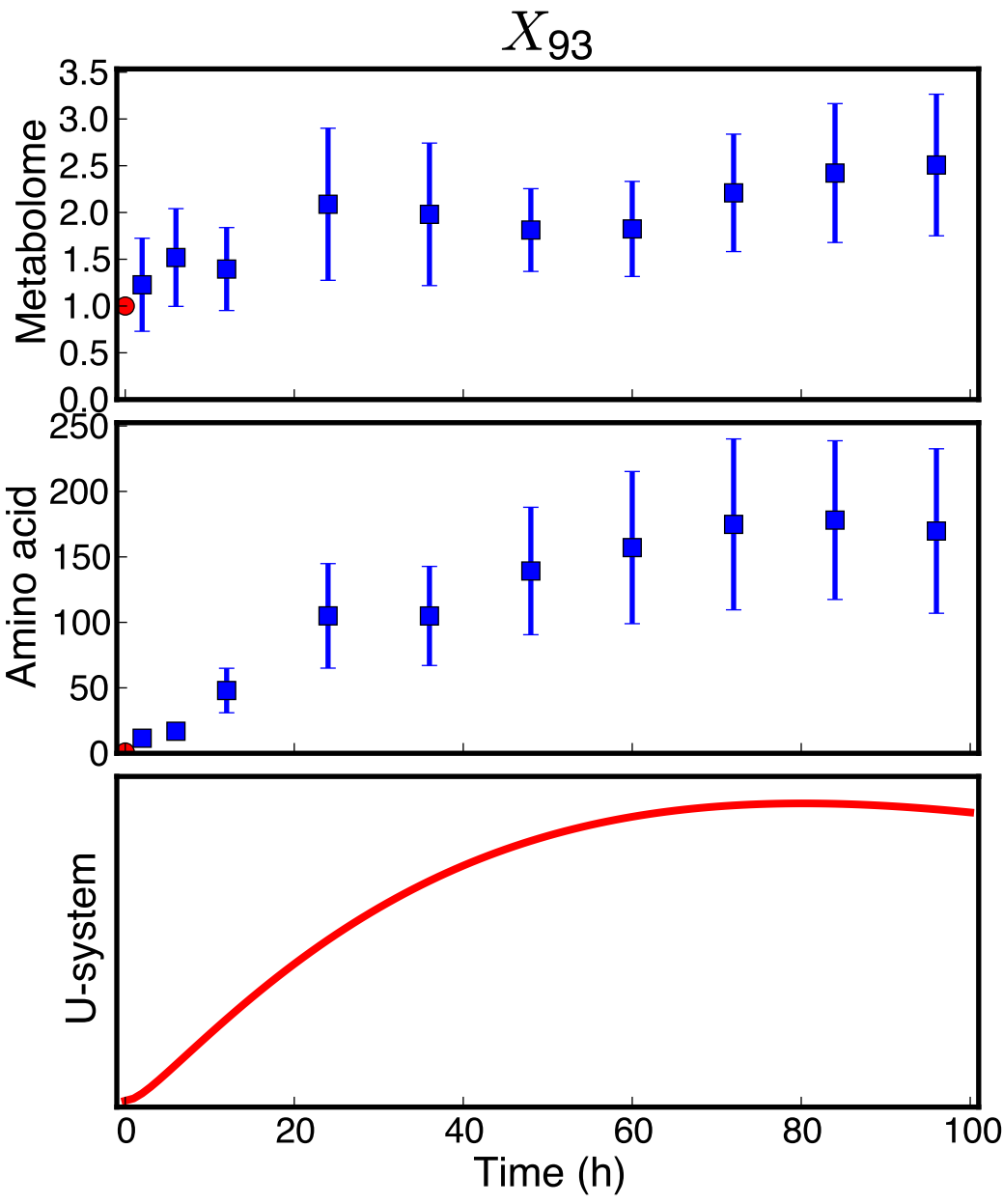

X_{88}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

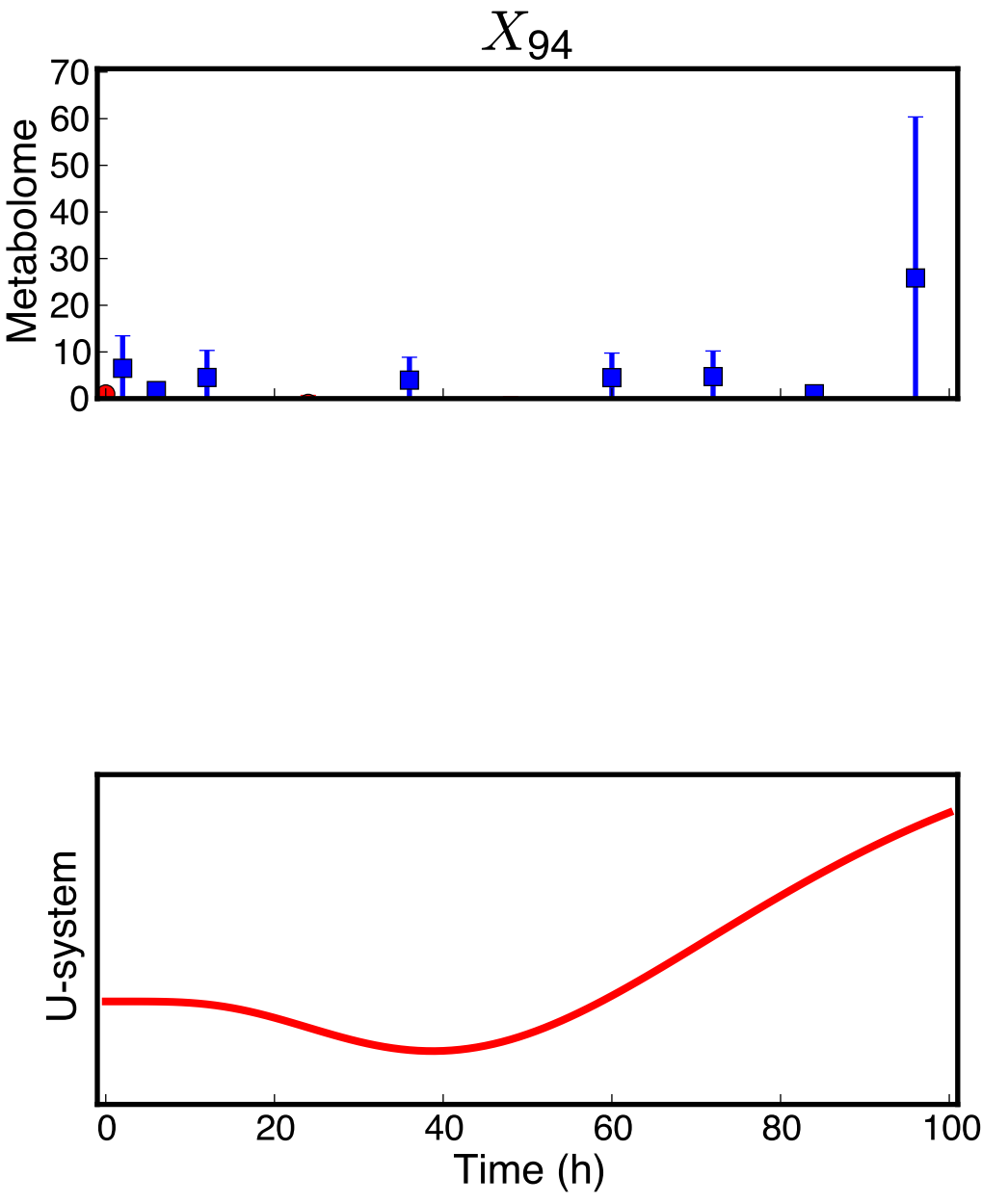

X_{89}
U-system
0
20
40
60
80
100
Time (h)

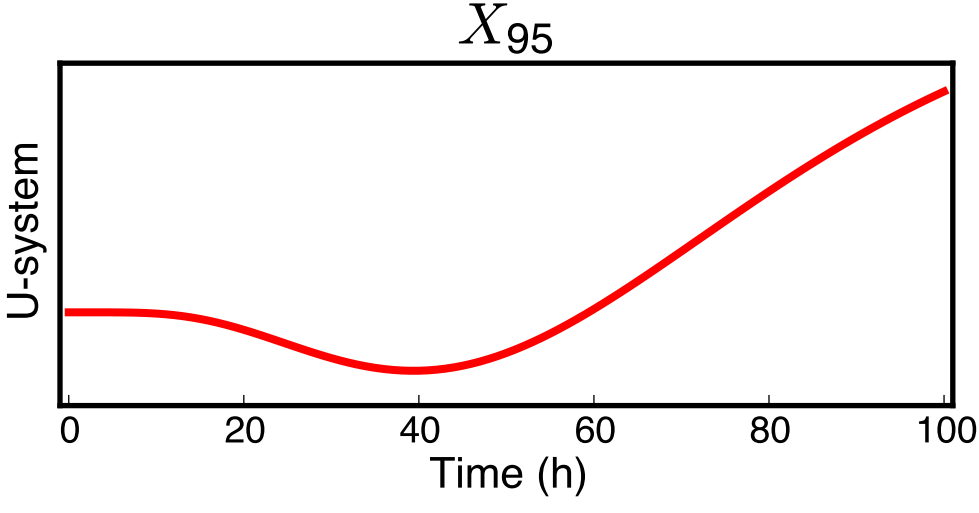

X_{90}
U-system
0
20
40
60
80
100
Time (h)

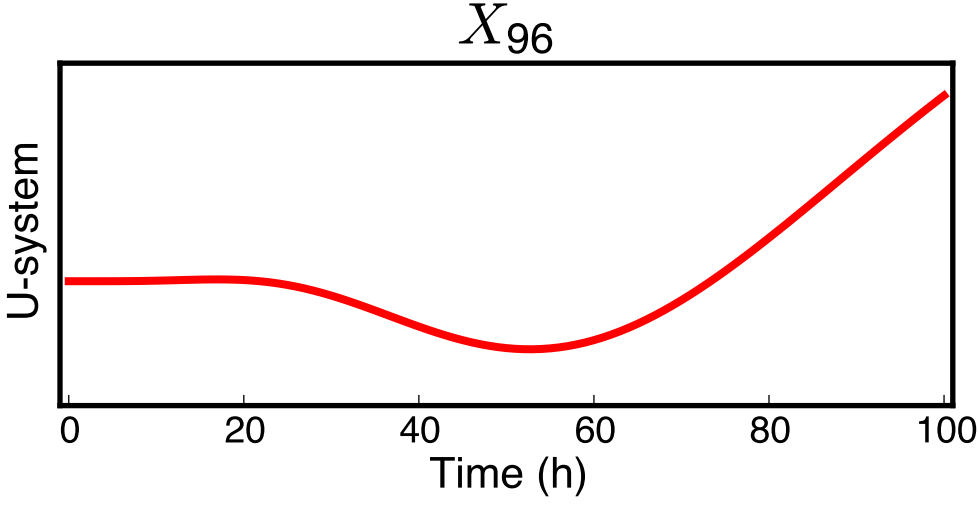

X_{91}
U-system
0
20
40
60
80
100
Time (h)

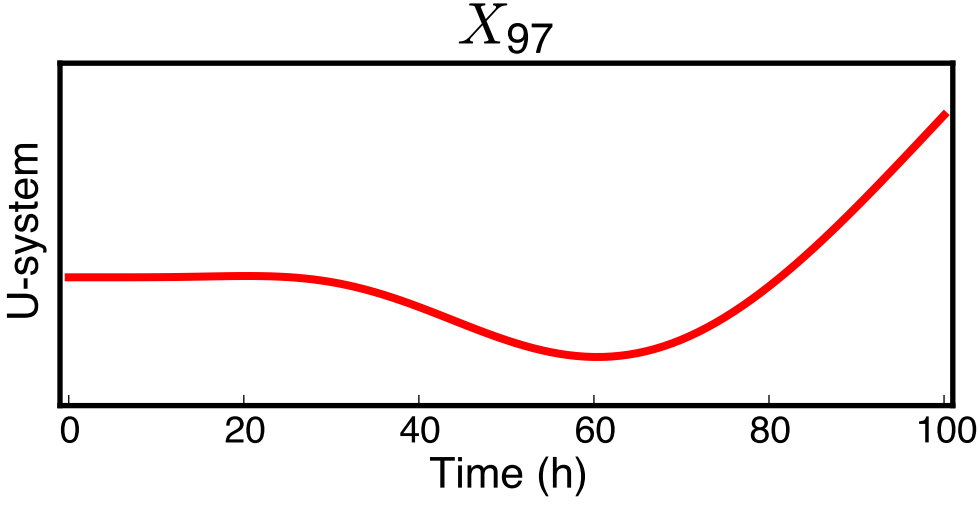

X_{92}
U-system
0
20
40
60
80
100
Time (h)

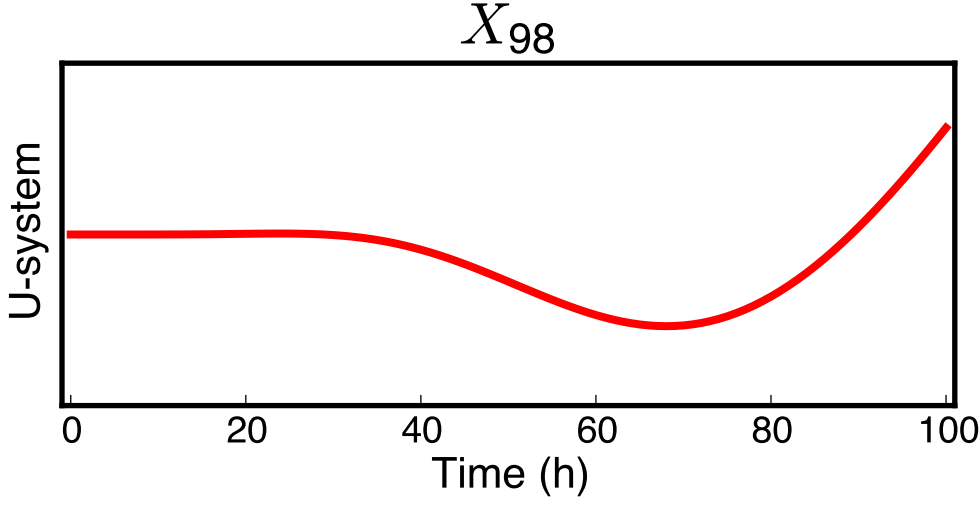

X_{93}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Amino acid
250
200
150
100
50
0
U-system
0
20
40
60
80
100
Time (h)

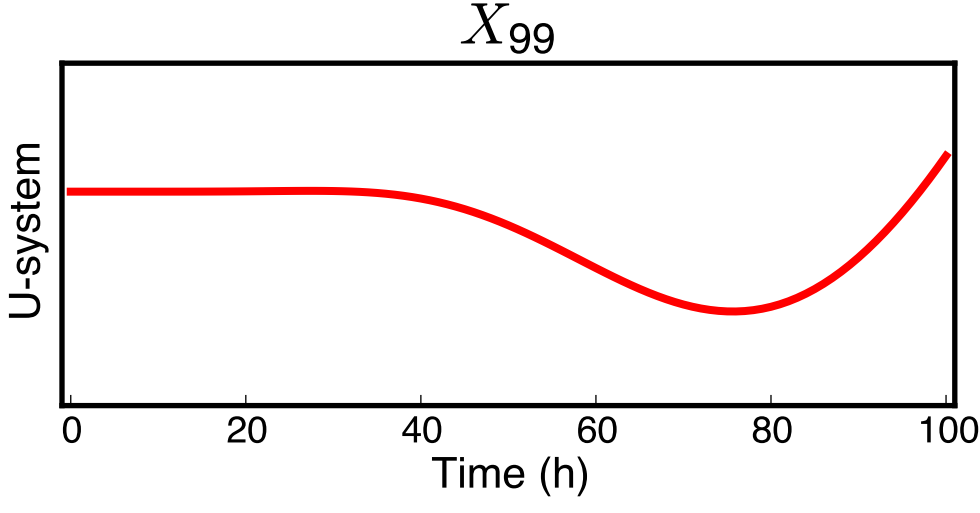

X_{94}
Metabolome
70
60
50
40
30
20
10
0
U-system
0
20
40
60
80
100
Time (h)

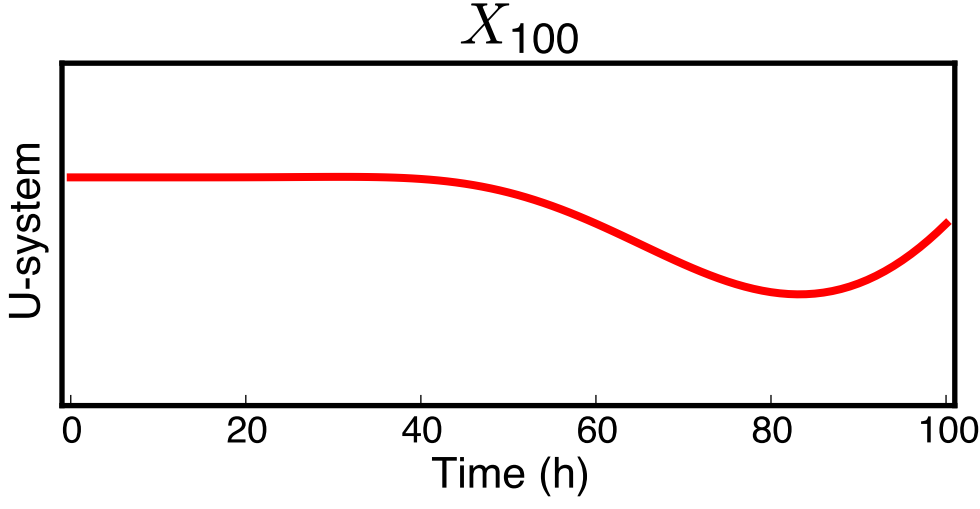

X_{95}
U-system
0
20
40
60
80
100
Time (h)

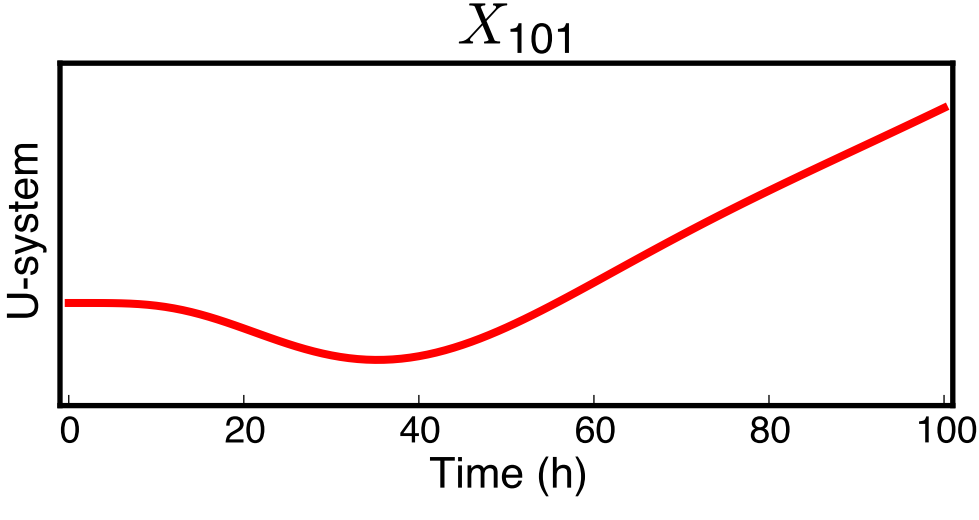

X_{96}
U-system
0
20
40
60
80
100
Time (h)

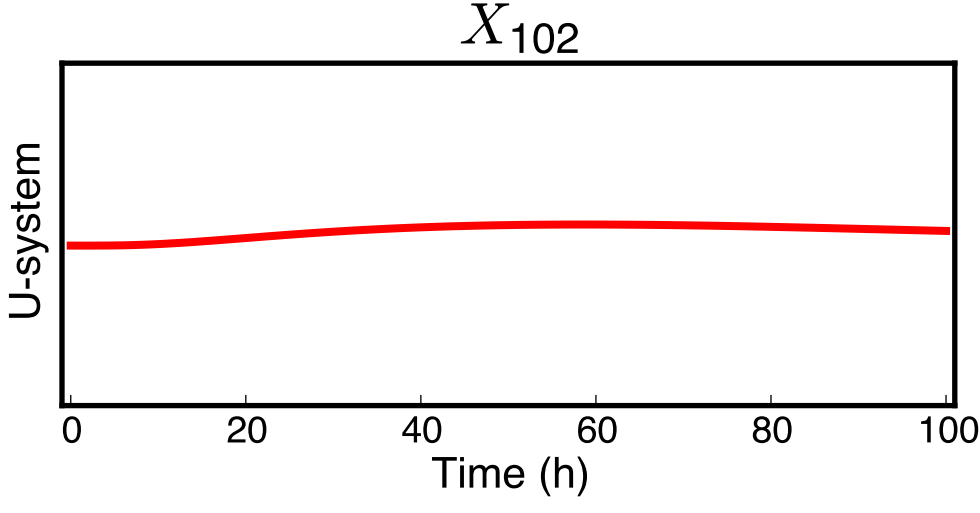

X_{97}
U-system
0
20
40
60
80
100
Time (h)

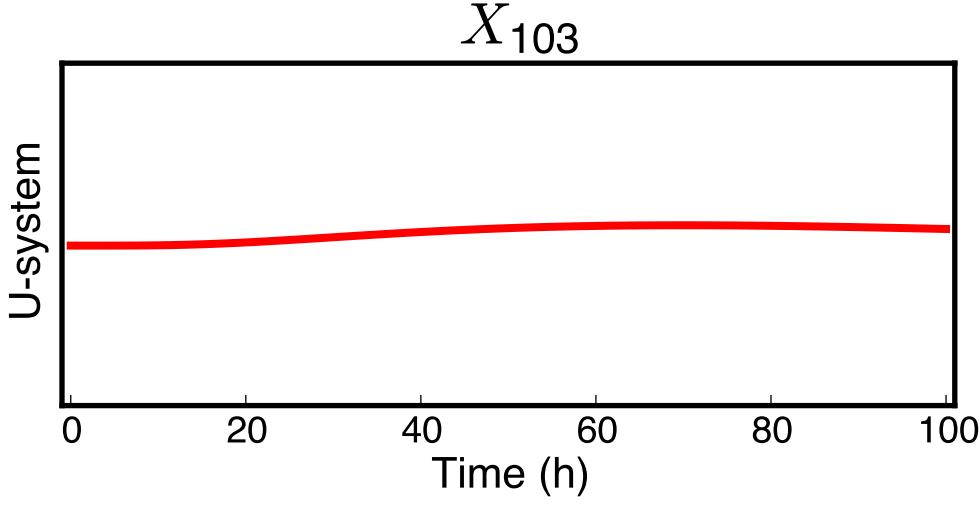

X_{98}
U-system
0
20
40
60
80
100
Time (h)

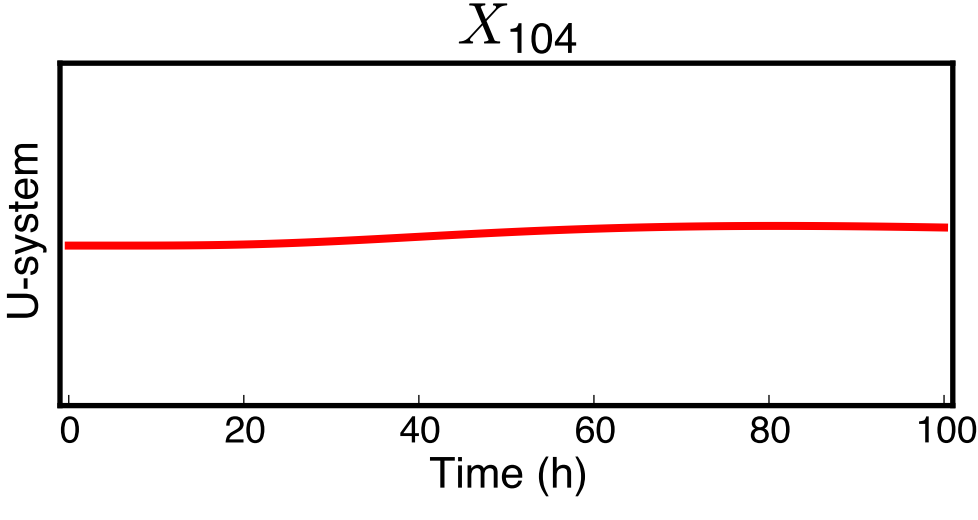

X_{99}
U-system
0
20
40
60
80
100
Time (h)

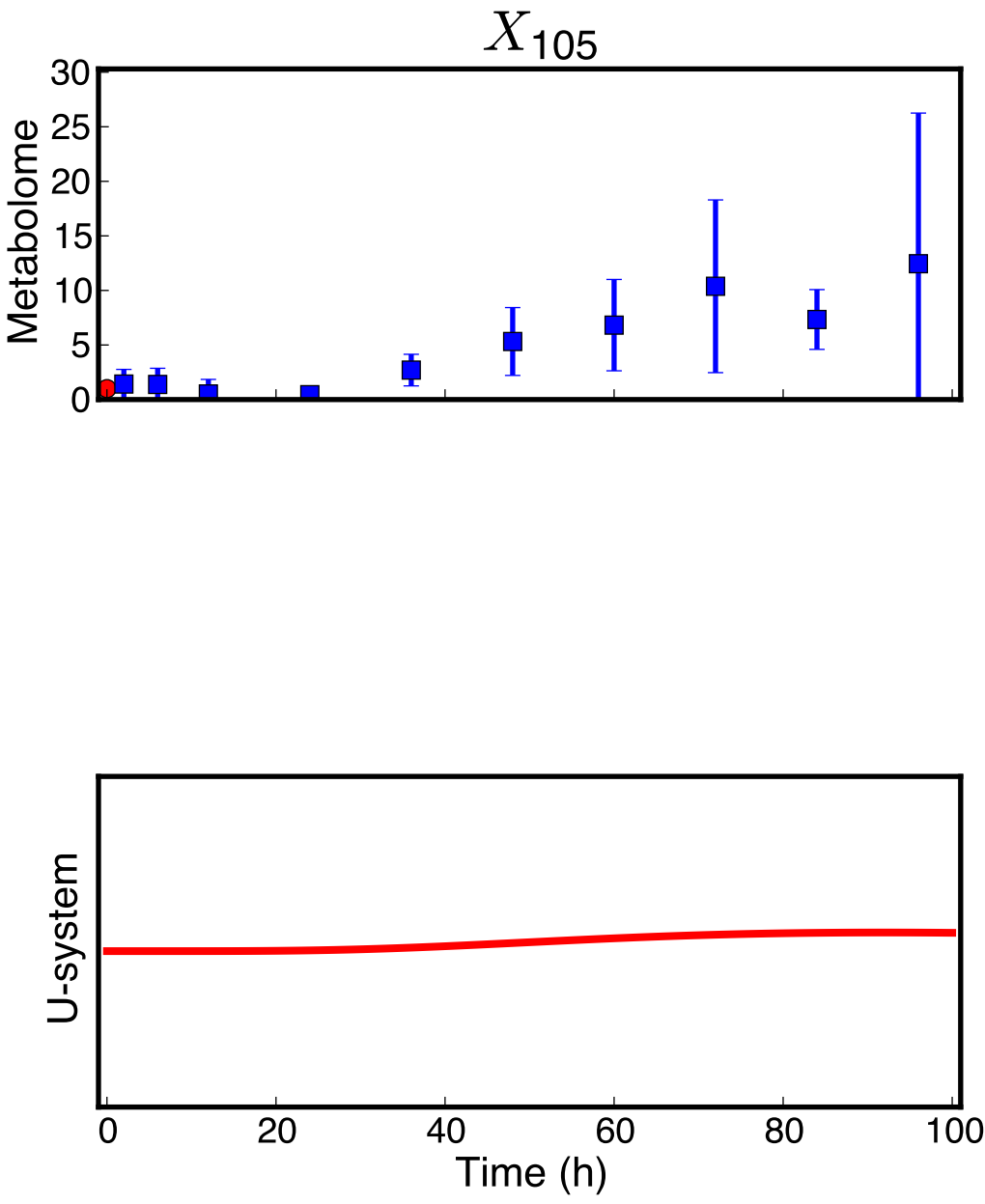

X_{100}
U-system
0
20
40
60
80
100
Time (h)

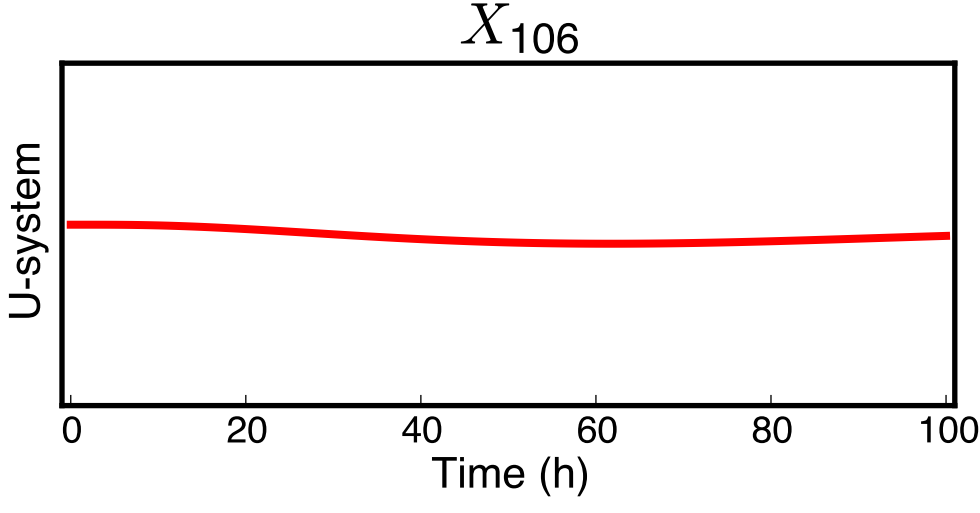

X_{101}
U-system
0
20
40
60
80
100
Time (h)

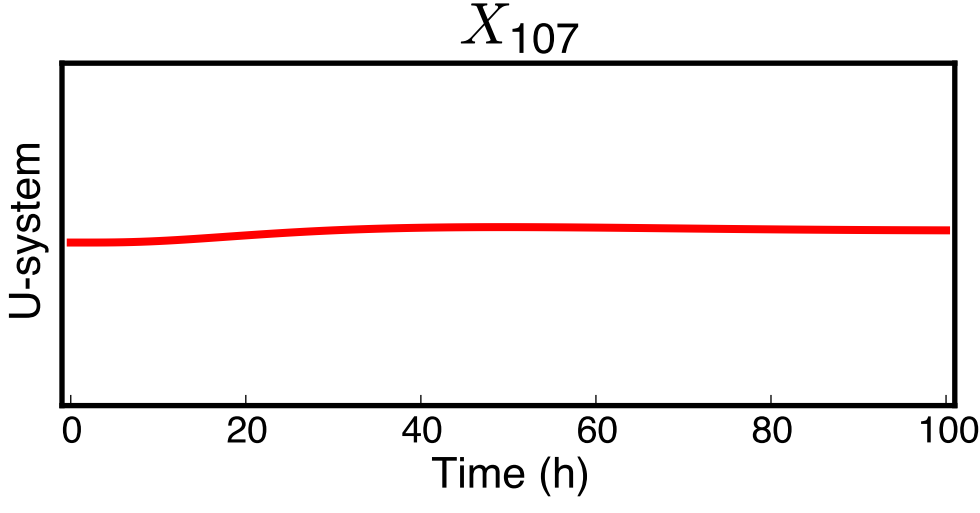

X_{102}
U-system
0
20
40
60
80
100
Time (h)

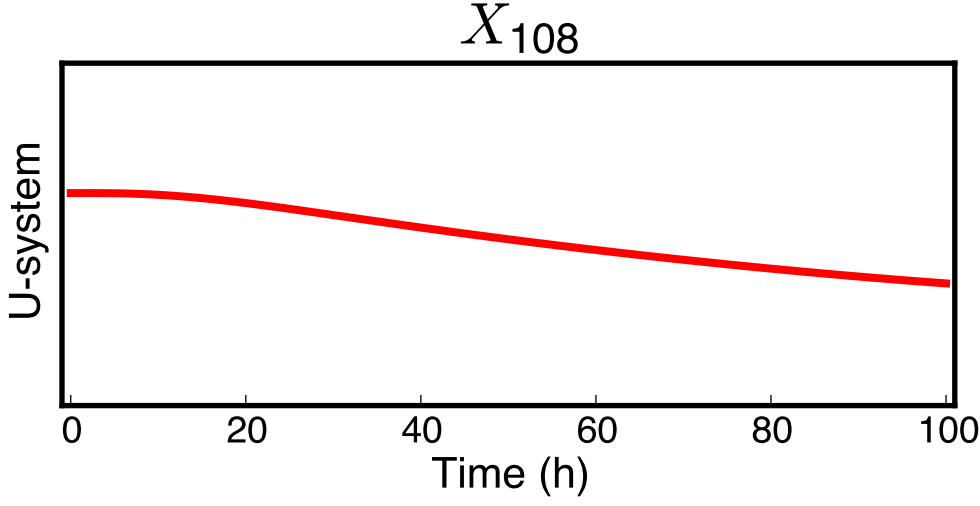

X_{103}
U-system
0
20
40
60
80
100
Time (h)

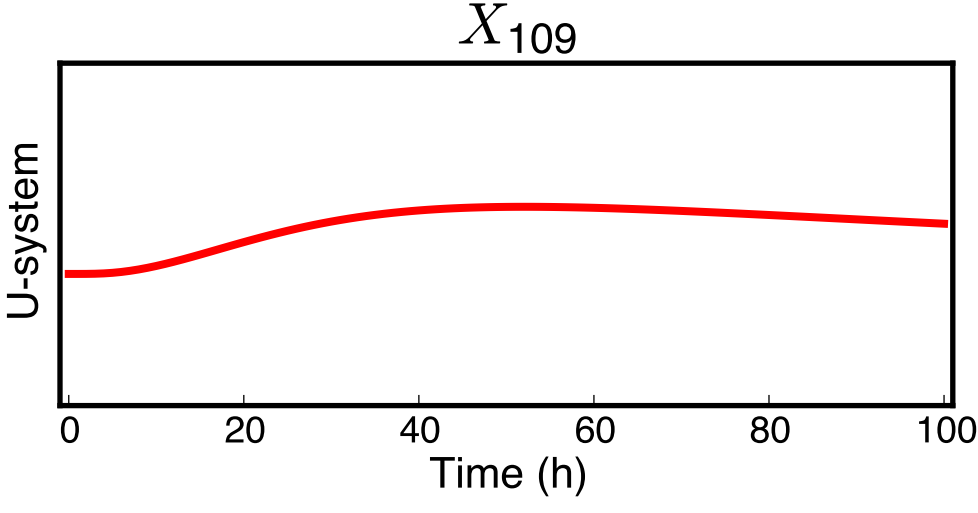

X_{104}
U-system
0
20
40
60
80
100
Time (h)

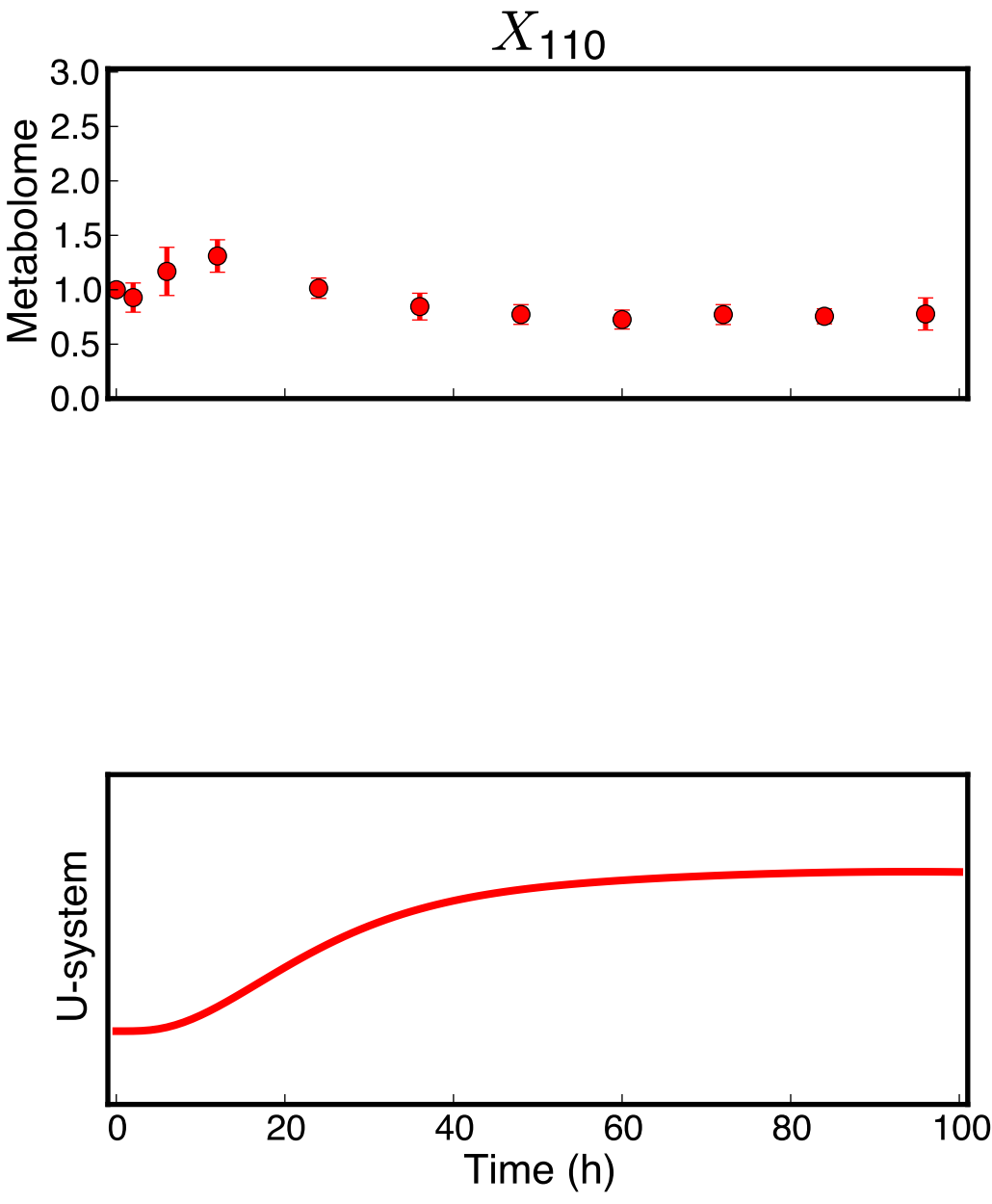

X_{105}
Metabolome
30
25
20
15
10
5
0
U-system
0
20
40
60
80
100
Time (h)

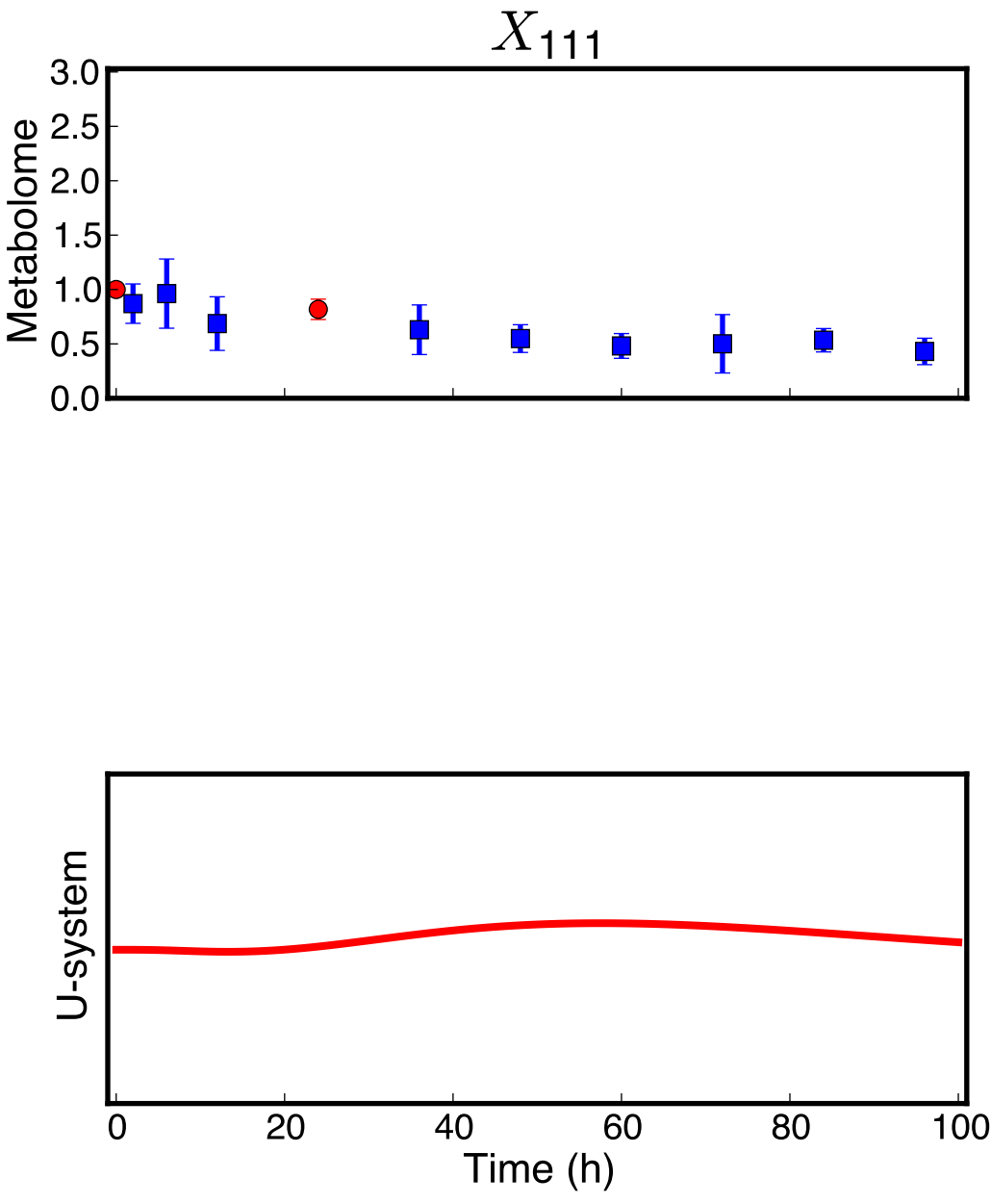

X_{106}
U-system
0
20
40
60
80
100
Time (h)

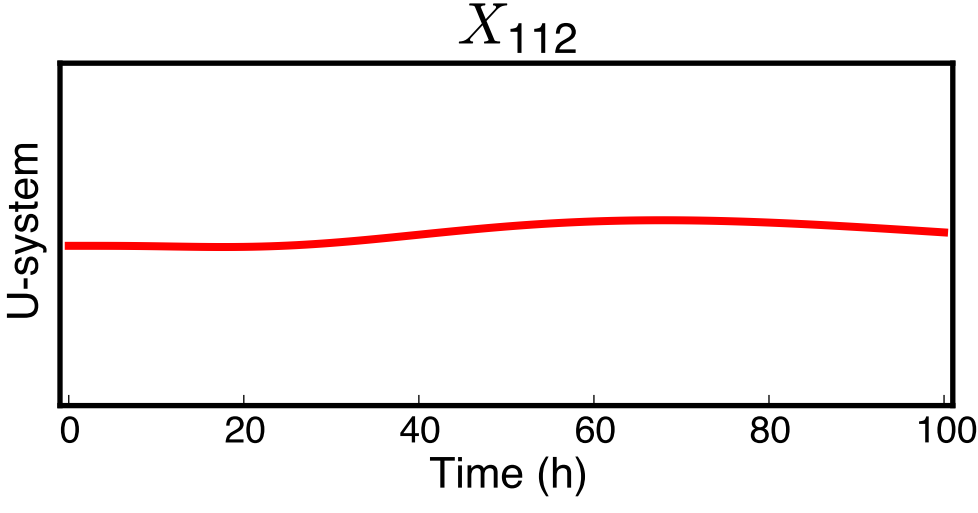

X_{107}
U-system
0
20
40
60
80
100
Time (h)

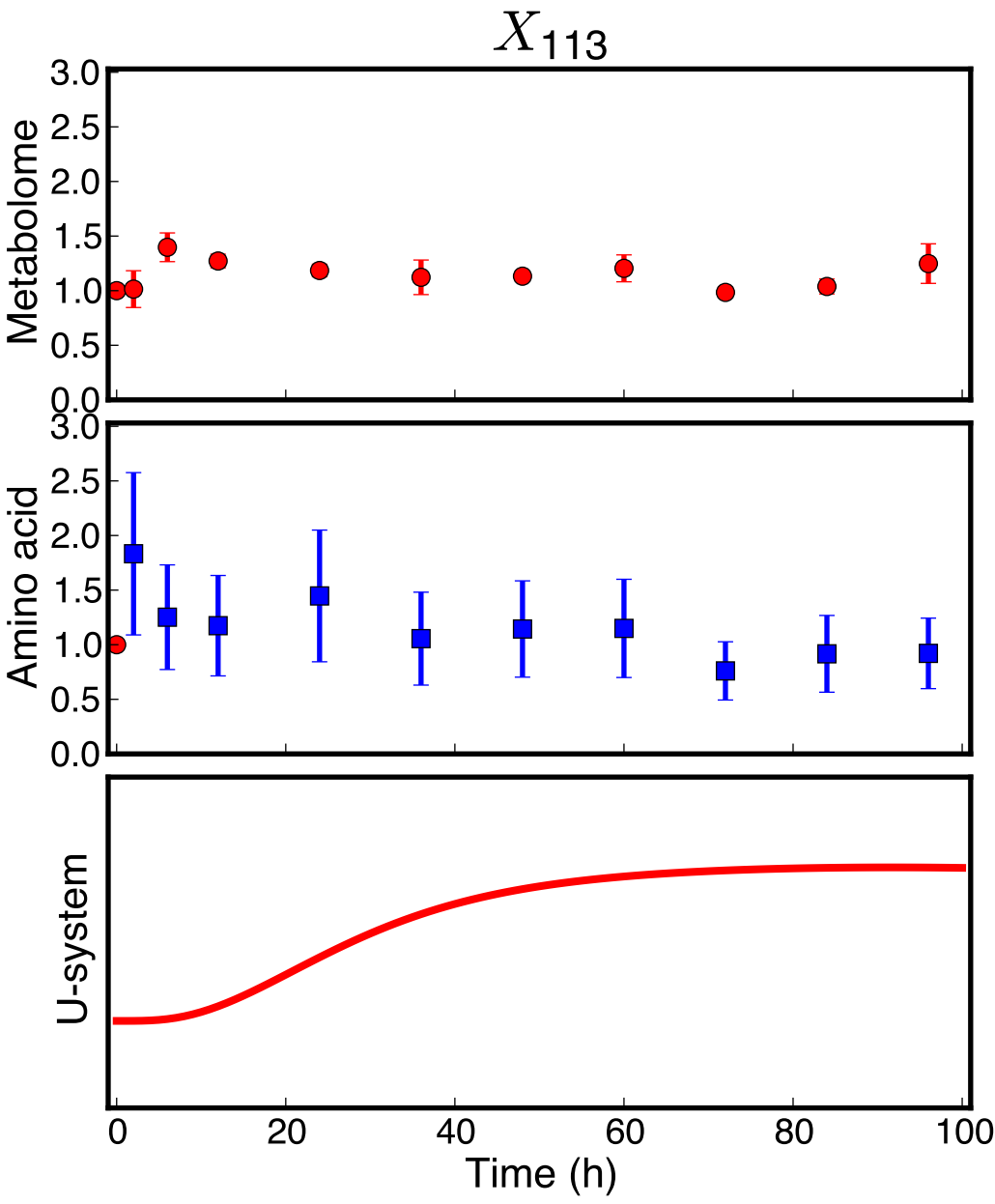

X_{108}
U-system
0
20
40
60
80
100
Time (h)

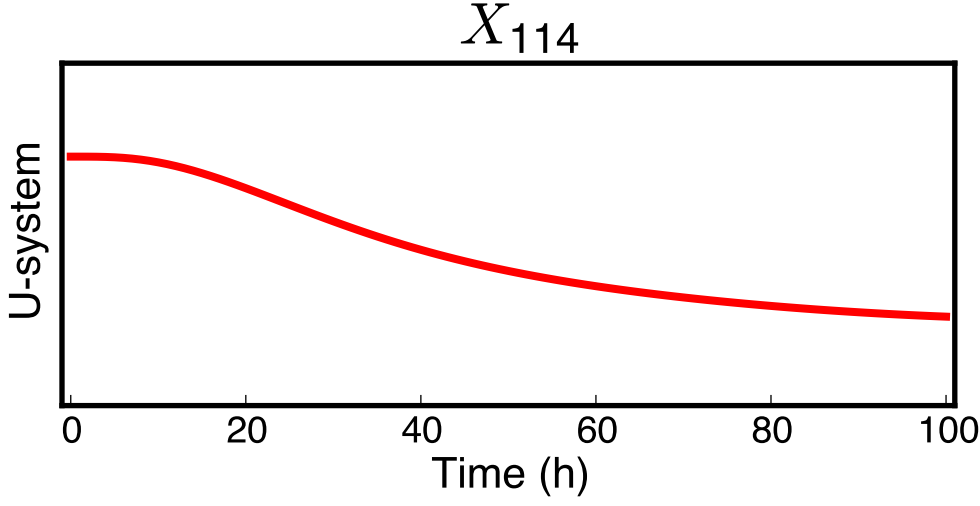

X_{109}
U-system
0
20
40
60
80
100
Time (h)

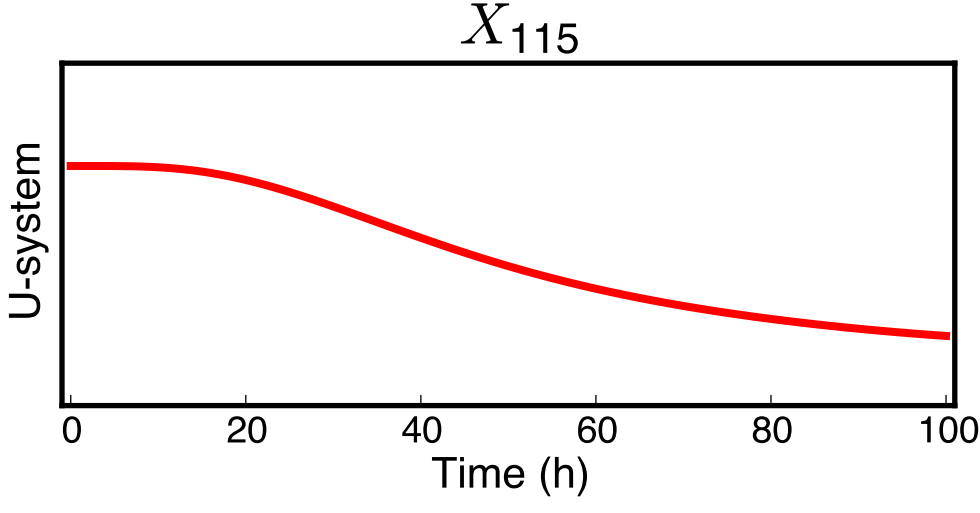

X_{110}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

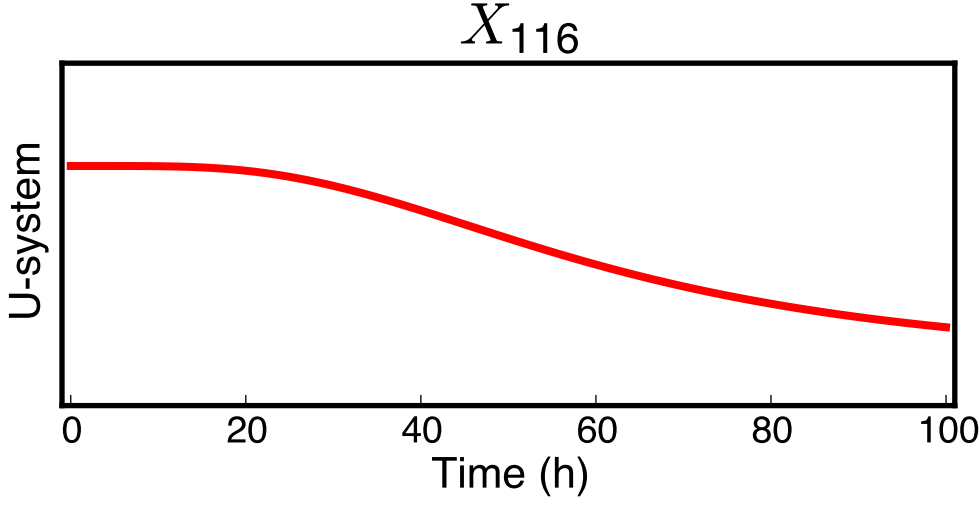

X_{111}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)

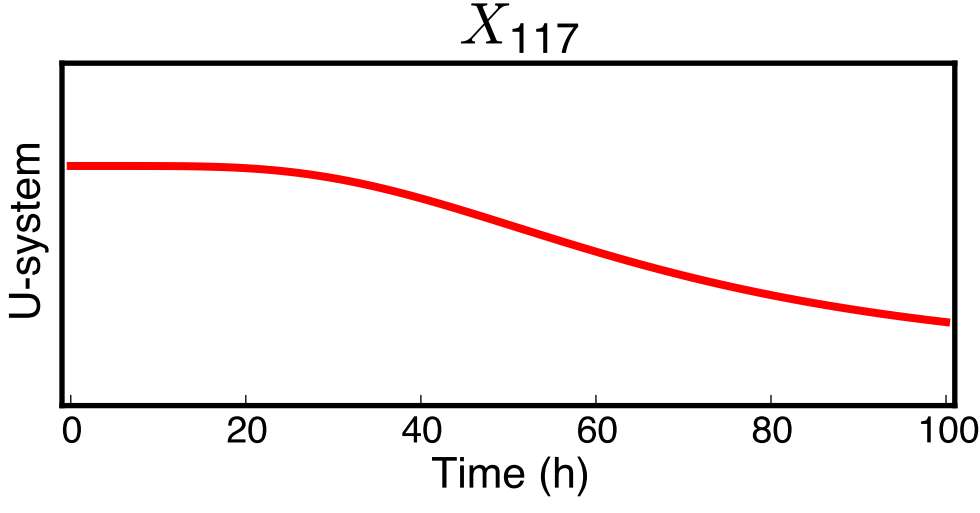

X_{112}
U-system
0
20
40
60
80
100
Time (h)

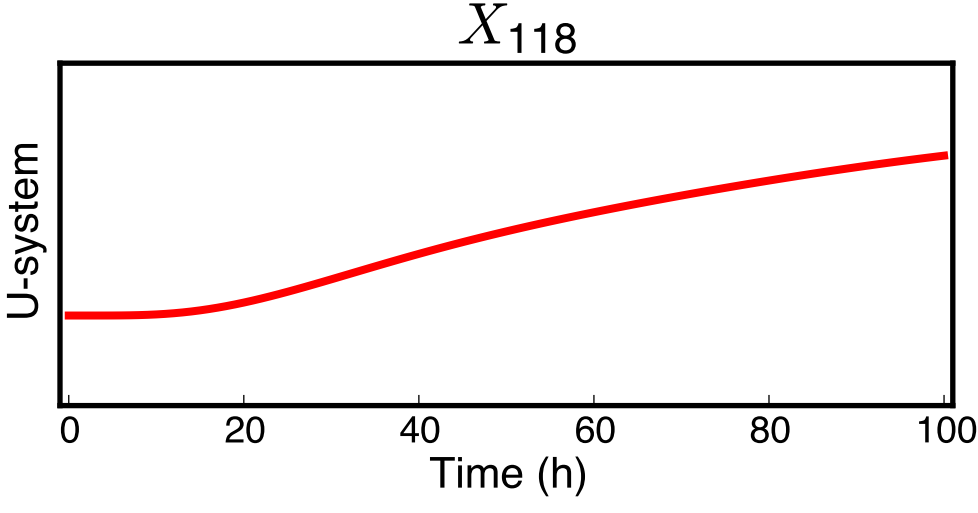

X_{113}
Metabolome
Amino acid
U-system
Time (h)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
20
40
60
80
100

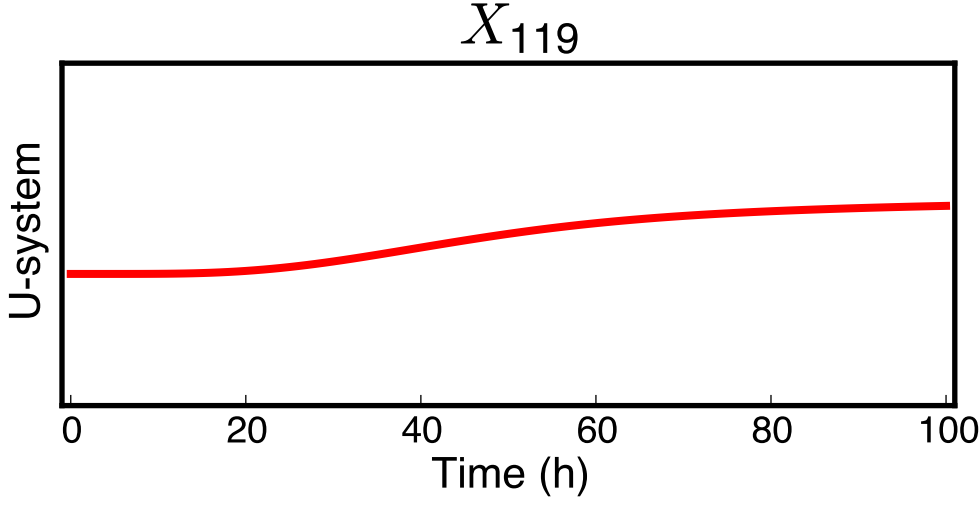

X_{114}
U-system
0
20
40
60
80
100
Time (h)

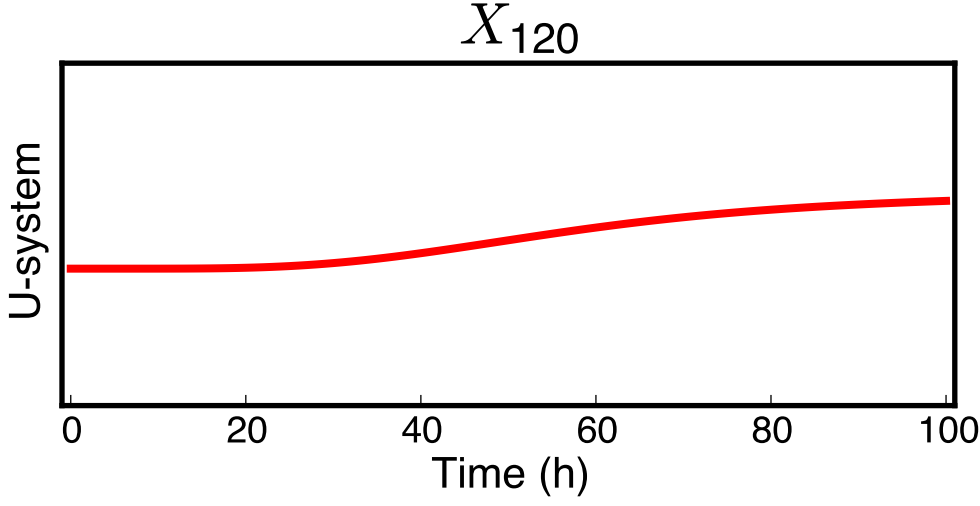

X_{115}
U-system
0
20
40
60
80
100
Time (h)

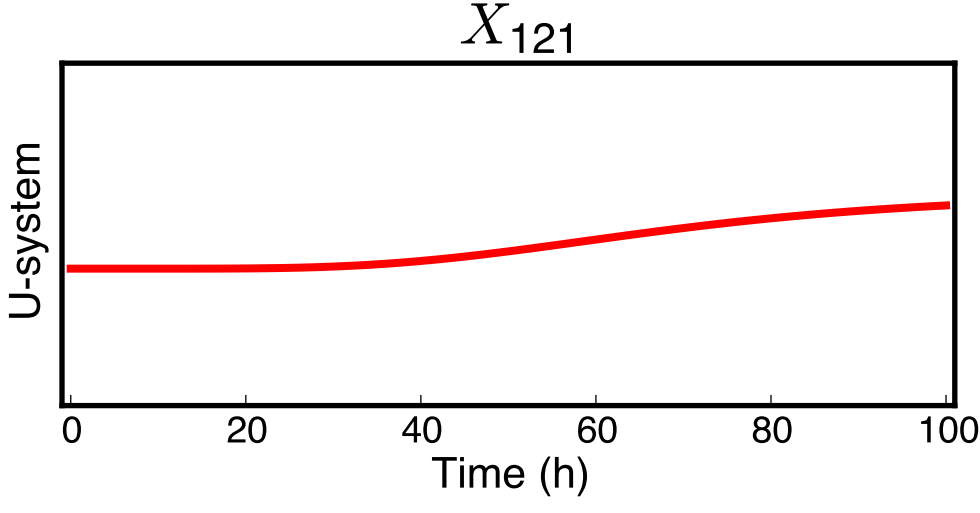

X_{116}
U-system
0
20
40
60
80
100
Time (h)

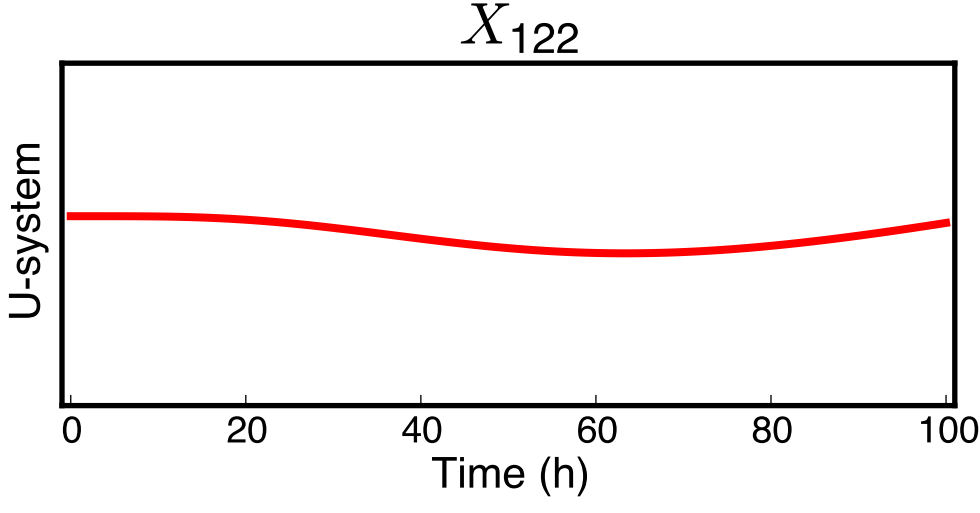

X_{117}
U-system
0
20
40
60
80
100
Time (h)

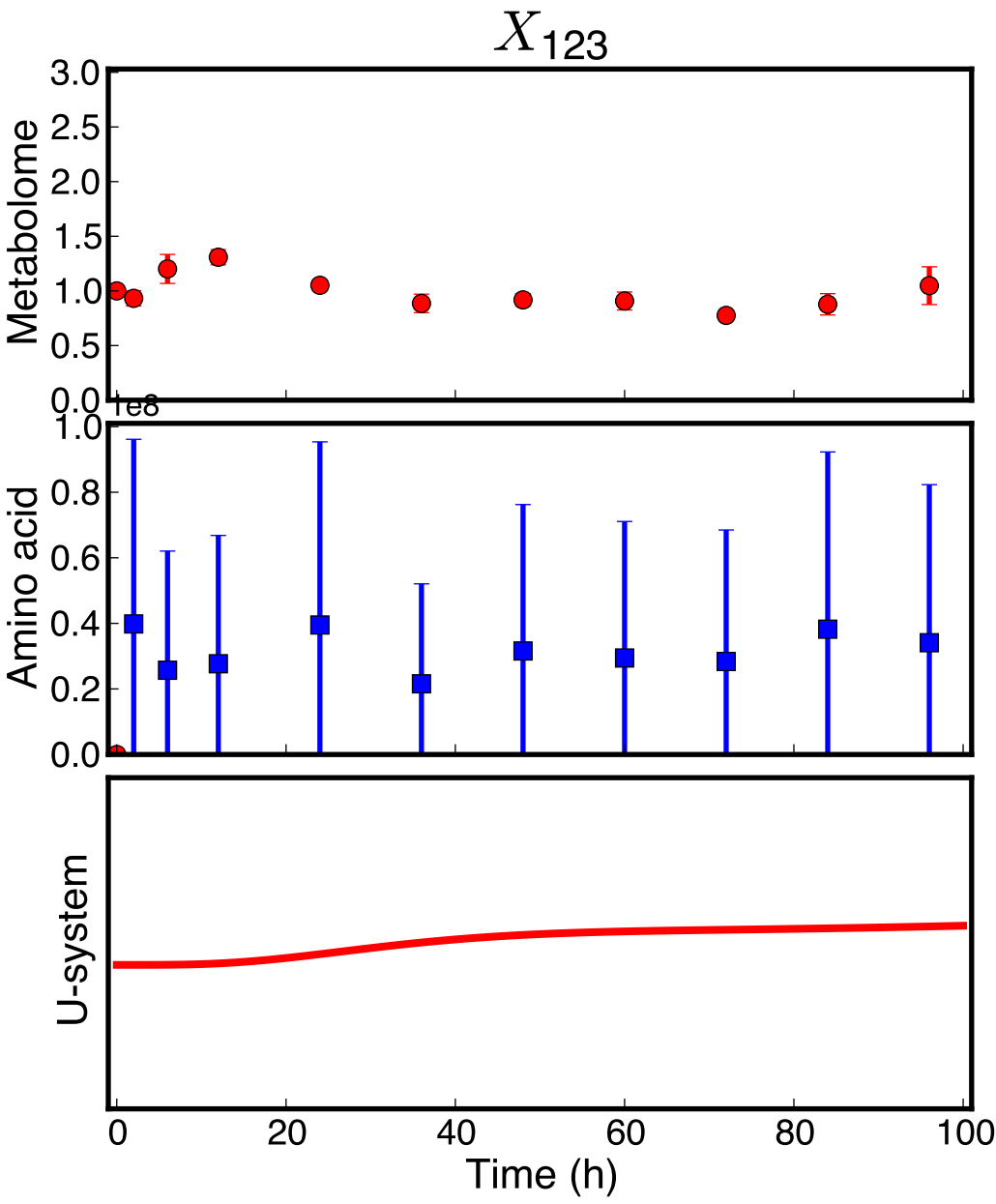

X_{118}
U-system
0
20
40
60
80
100
Time (h)

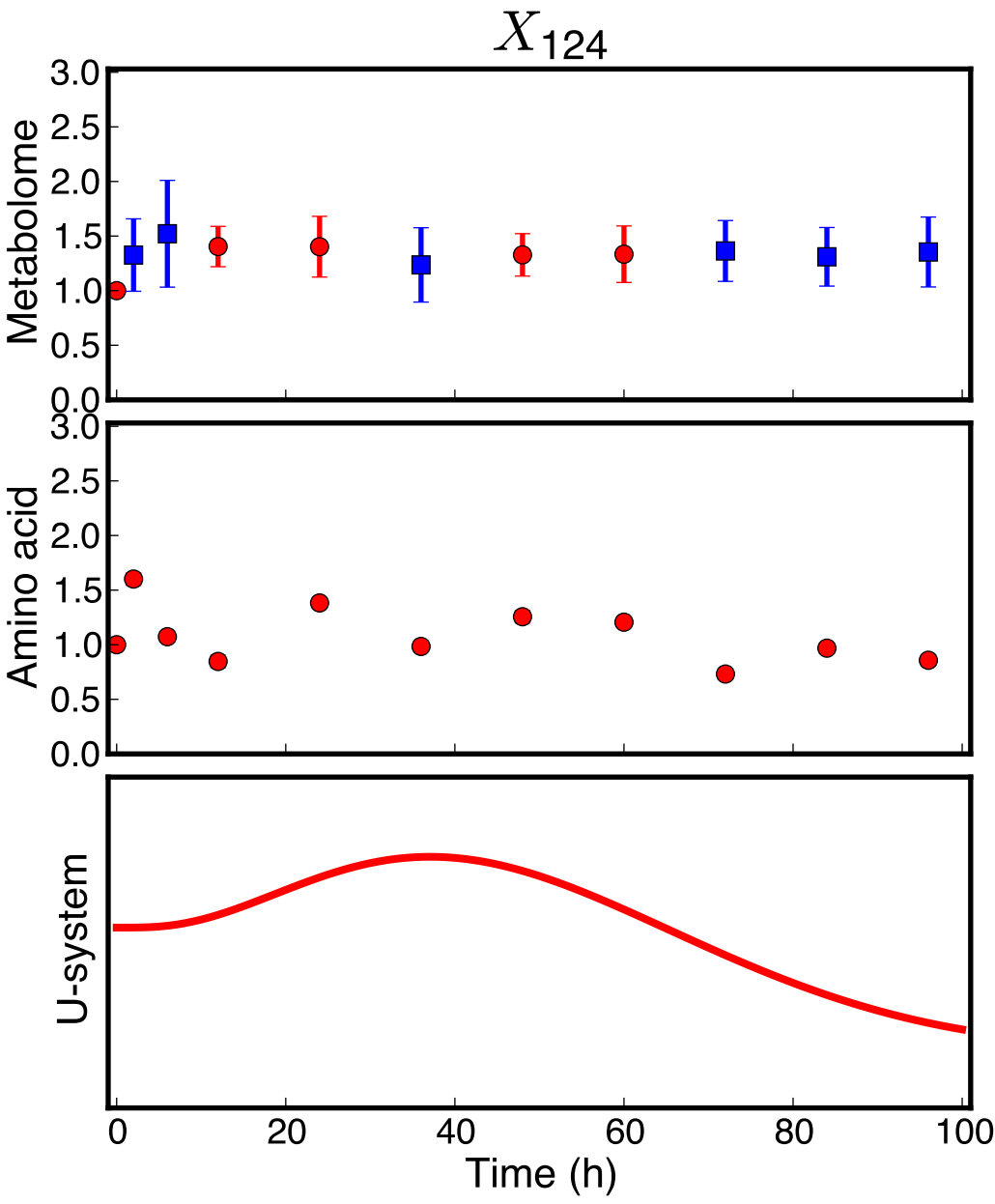

X_{119}
U-system
0
20
40
60
80
100
Time (h)

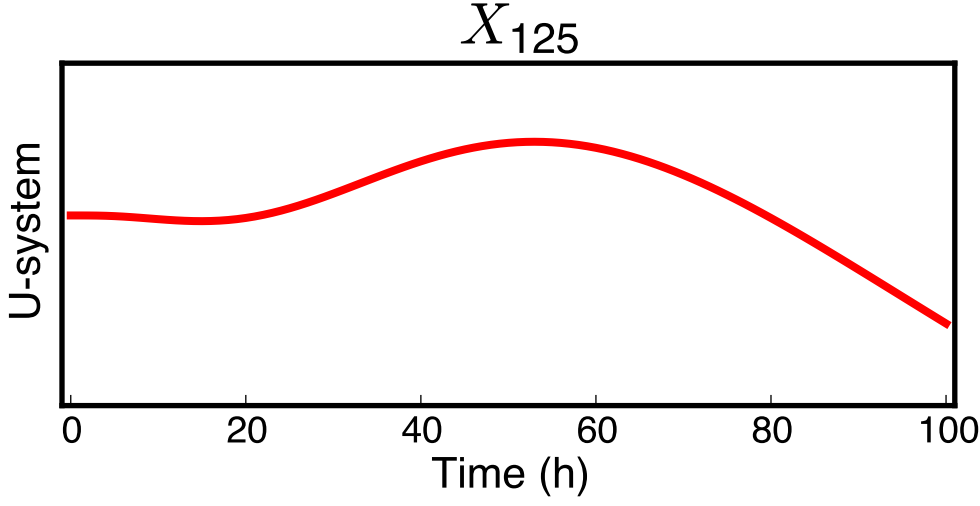

X_{120}
U-system
0
20
40
60
80
100
Time (h)

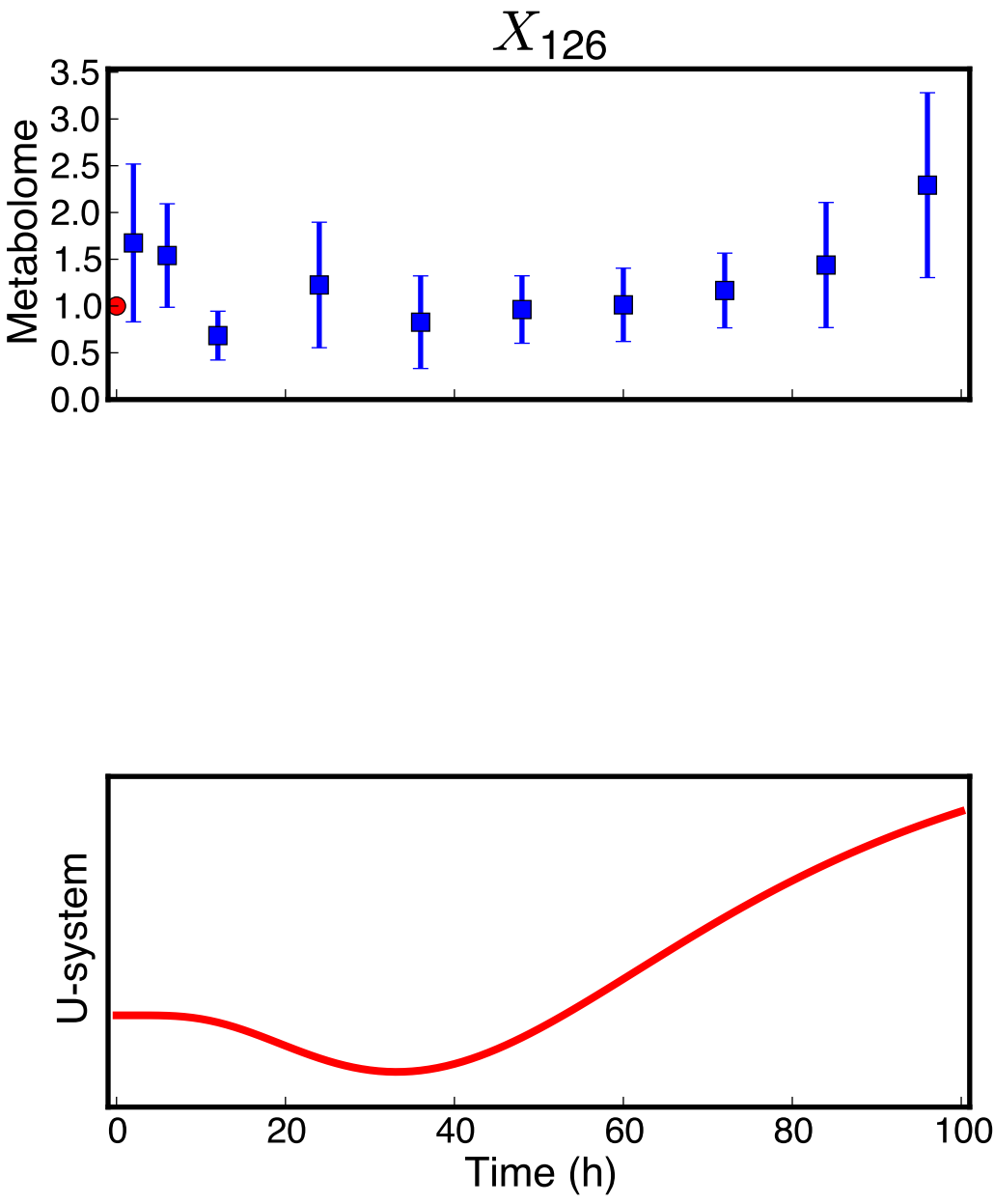

X_{121}
U-system
0
20
40
60
80
100
Time (h)

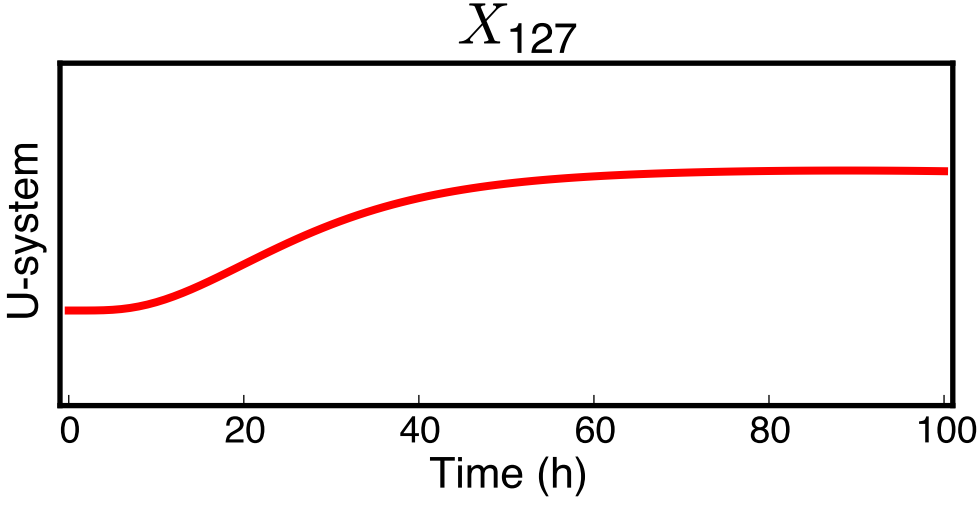

X_{122}
U-system
0
20
40
60
80
100
Time (h)

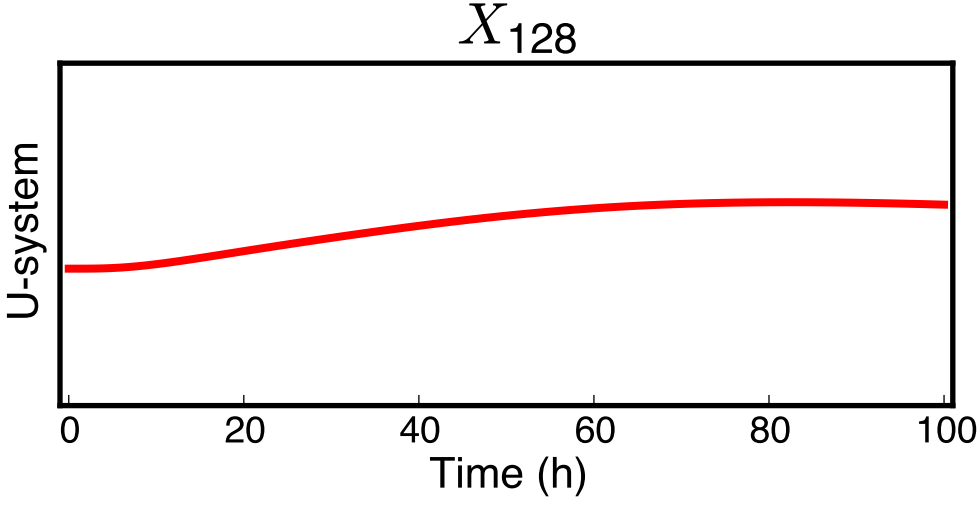

X_{123}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1e8
Amino acid
1.0
0.8
0.6
0.4
0.2
0.0
U-system
0
20
40
60
80
100
Time (h)

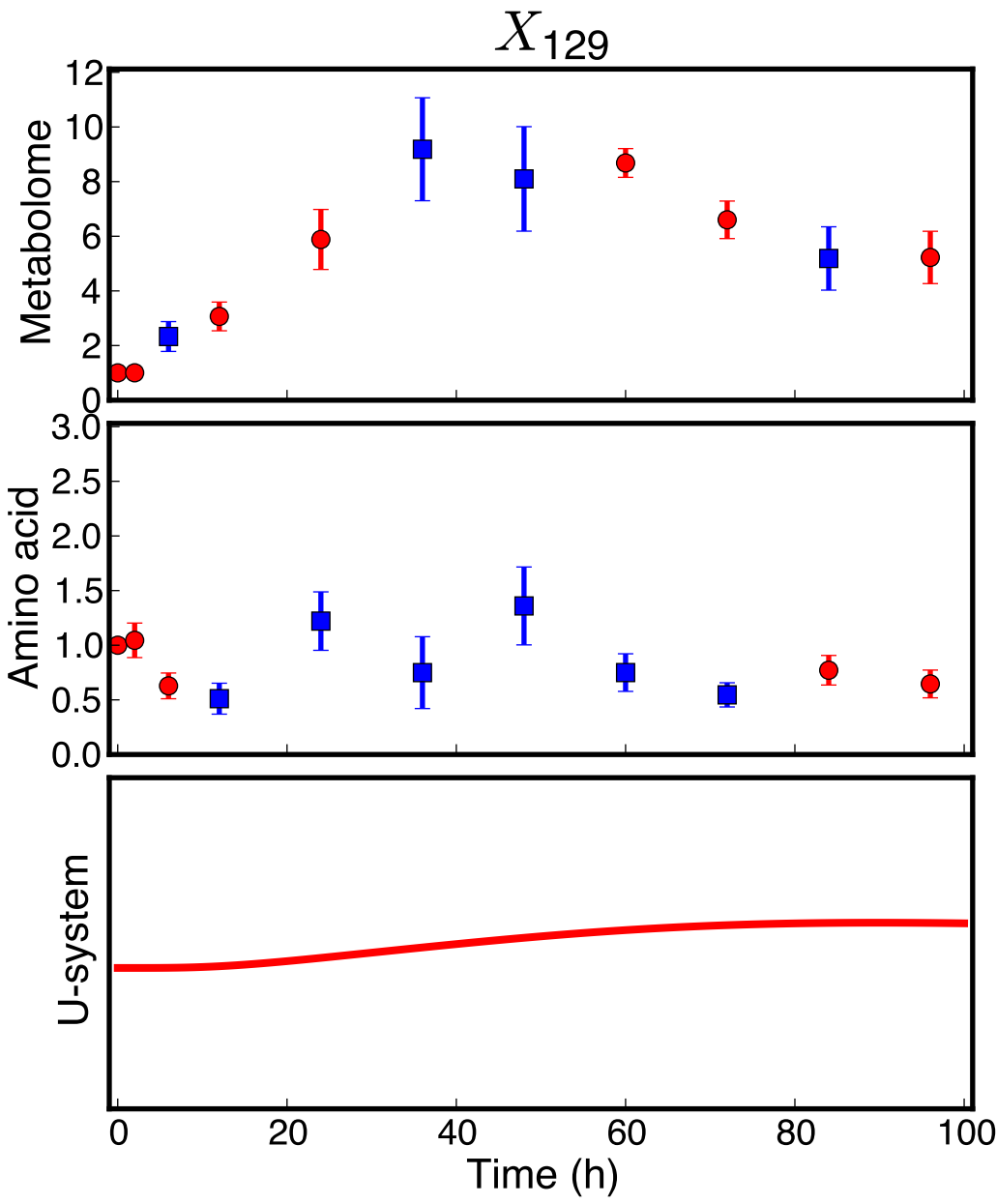

X_{124}
Metabolome
Amino acid
U-system
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

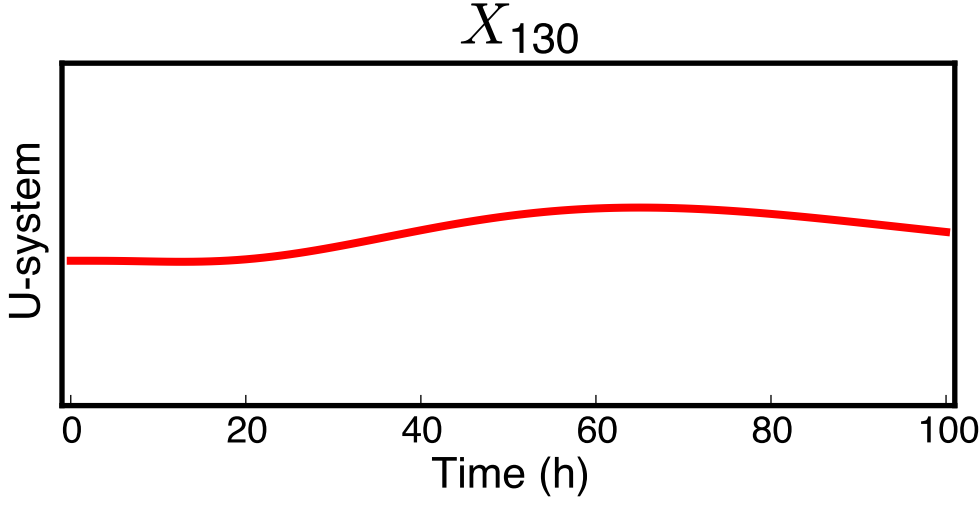

X_{125}
U-system
0
20
40
60
80
100
Time (h)


X_{126}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{127}
U-system
0
20
40
60
80
100
Time (h)


X_{128}
U-system
0
20
40
60
80
100
Time (h)


X_{129}
Metabolome
Amino acid
U-system
Time (h)
0
20
40
60
80
100
0
2
4
6
8
10
12
0.0
0.5
1.0
1.5
2.0
2.5
3.0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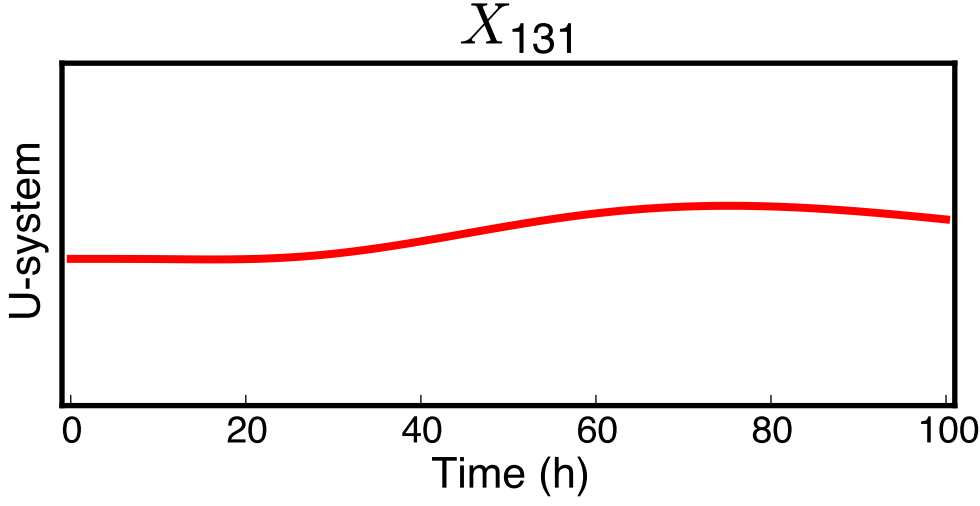
Time (h)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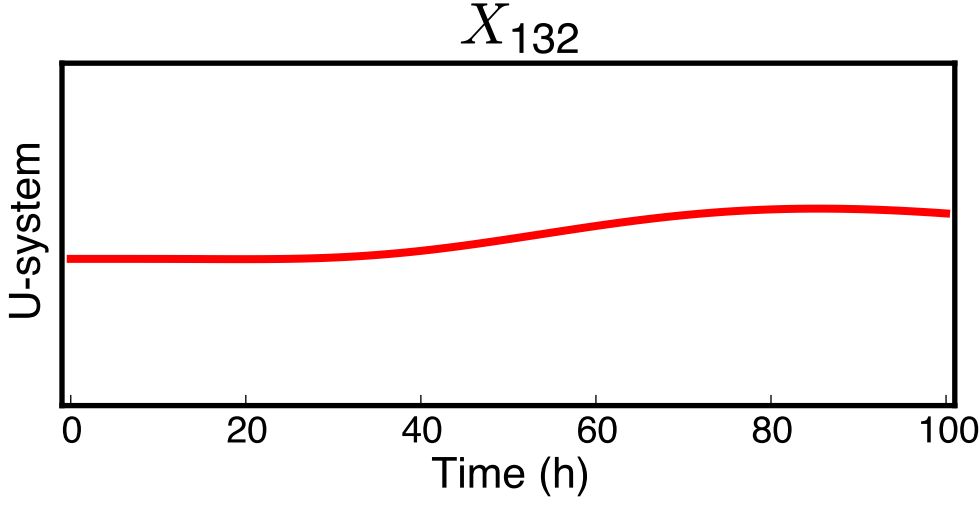
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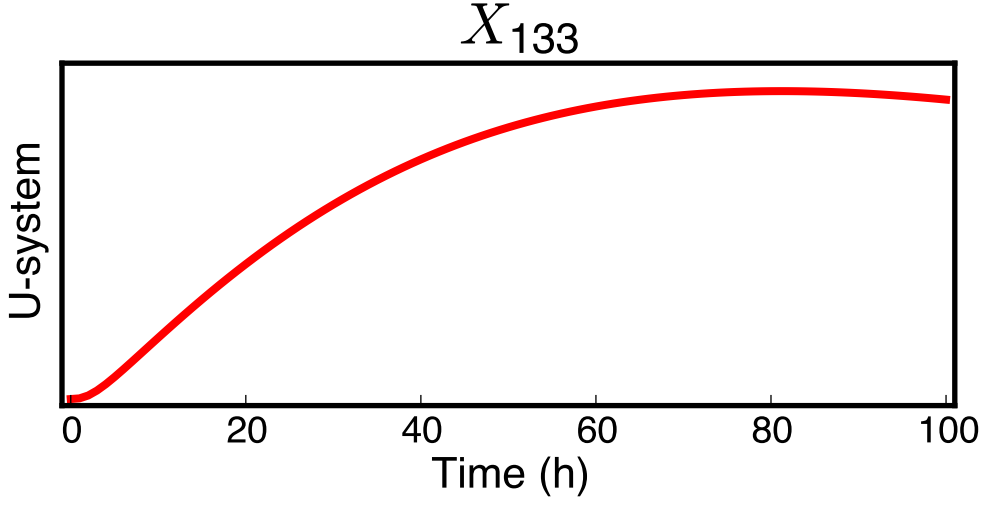
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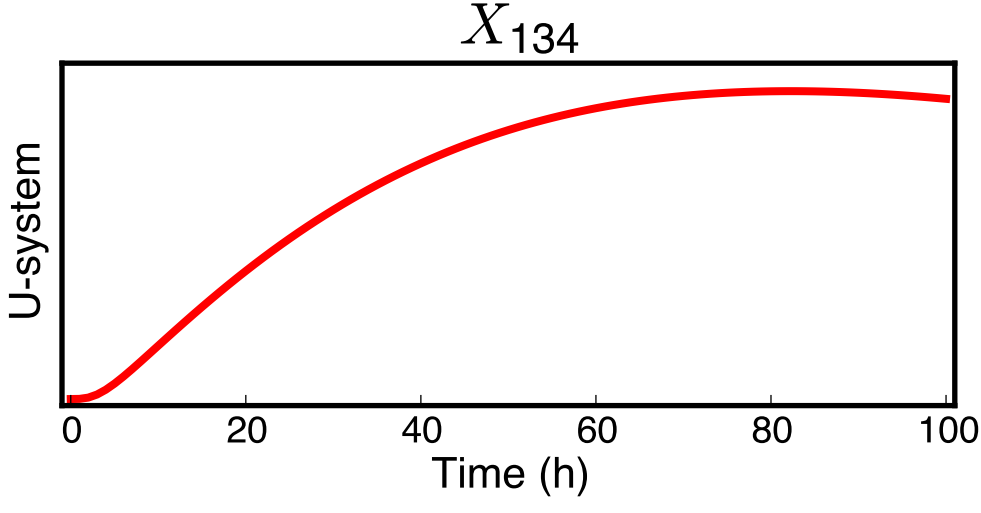
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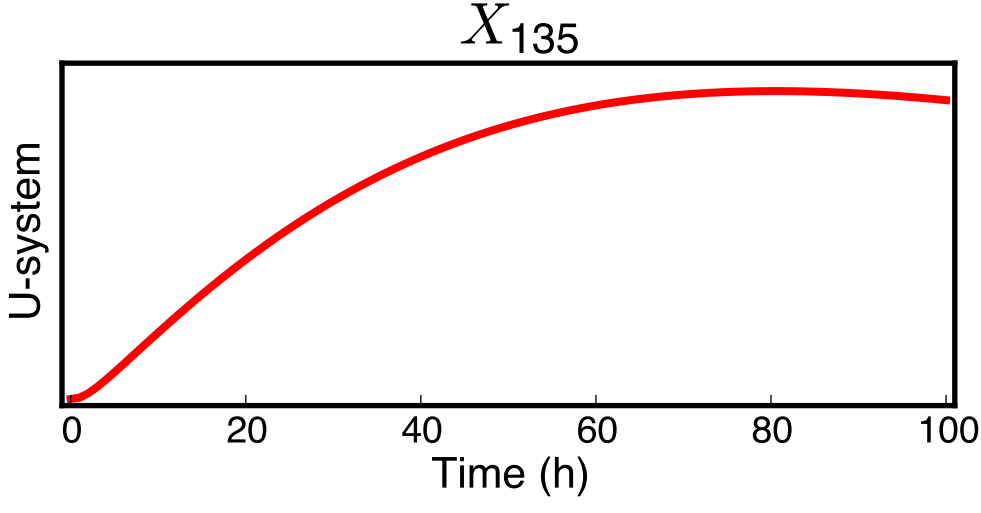
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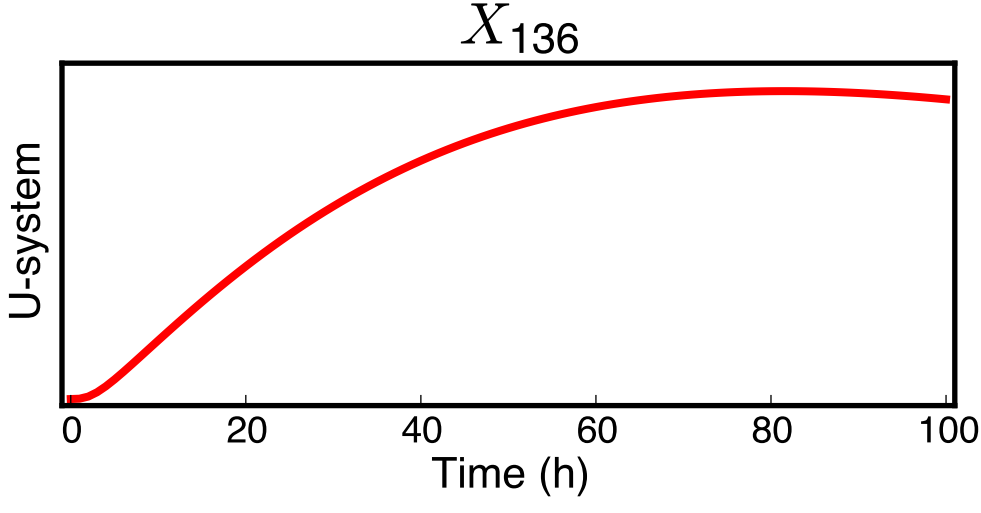
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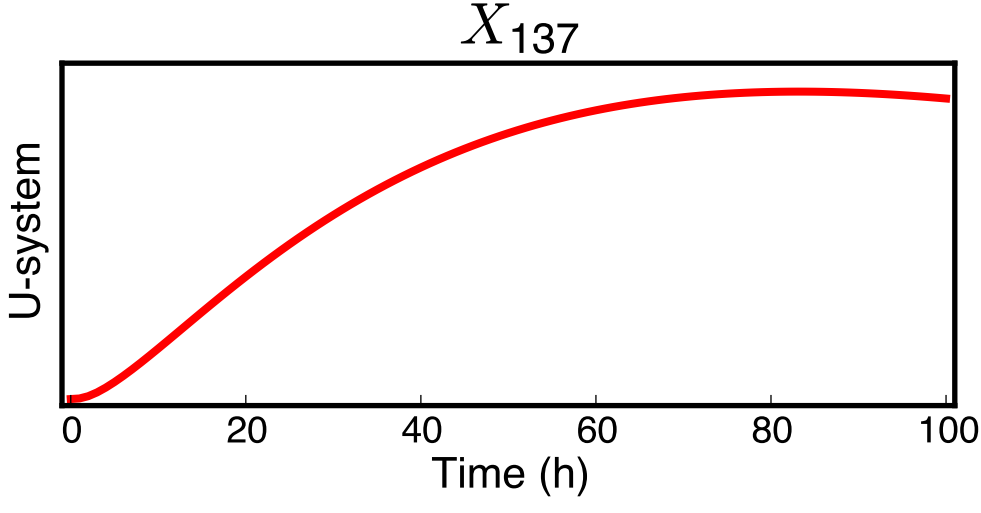
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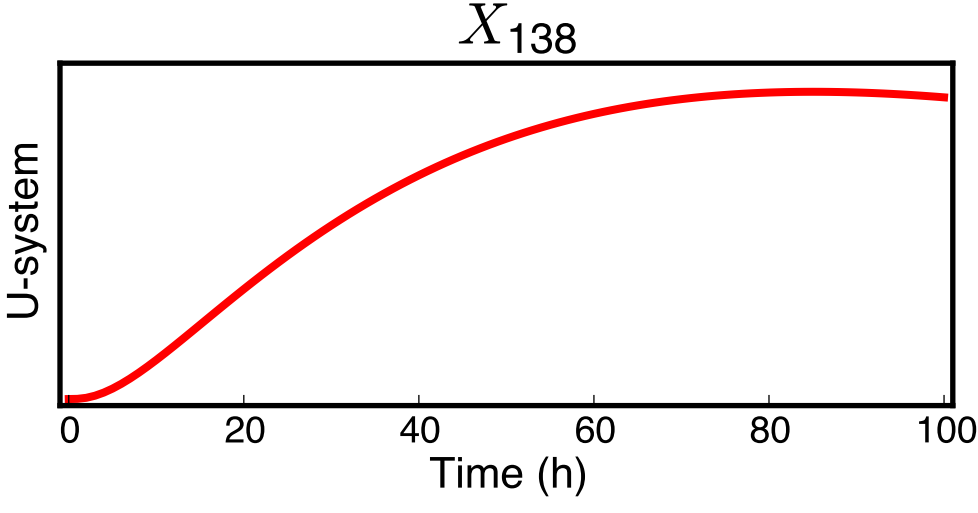
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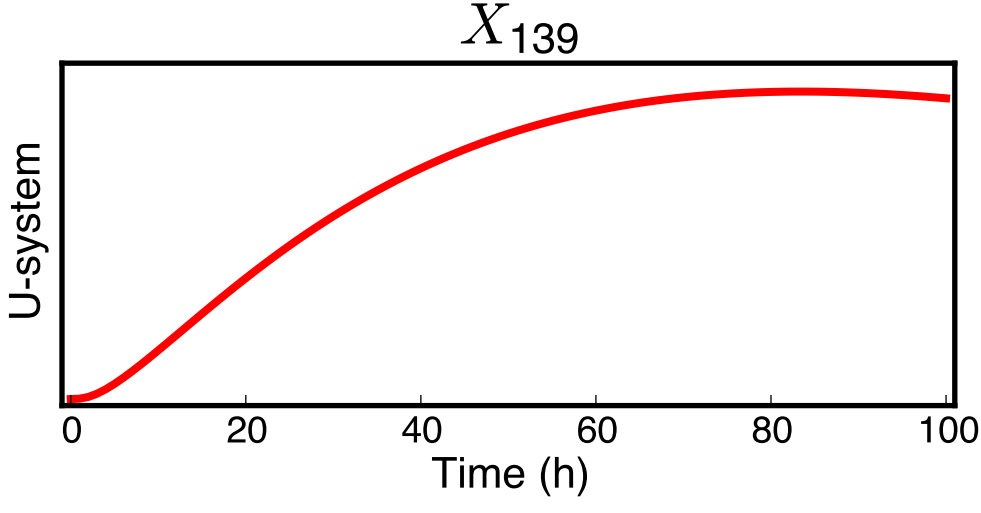
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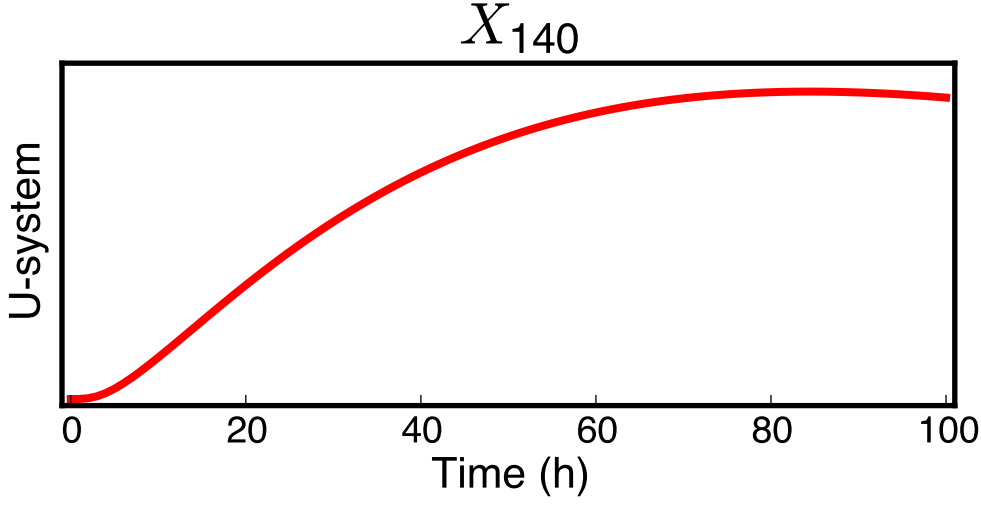
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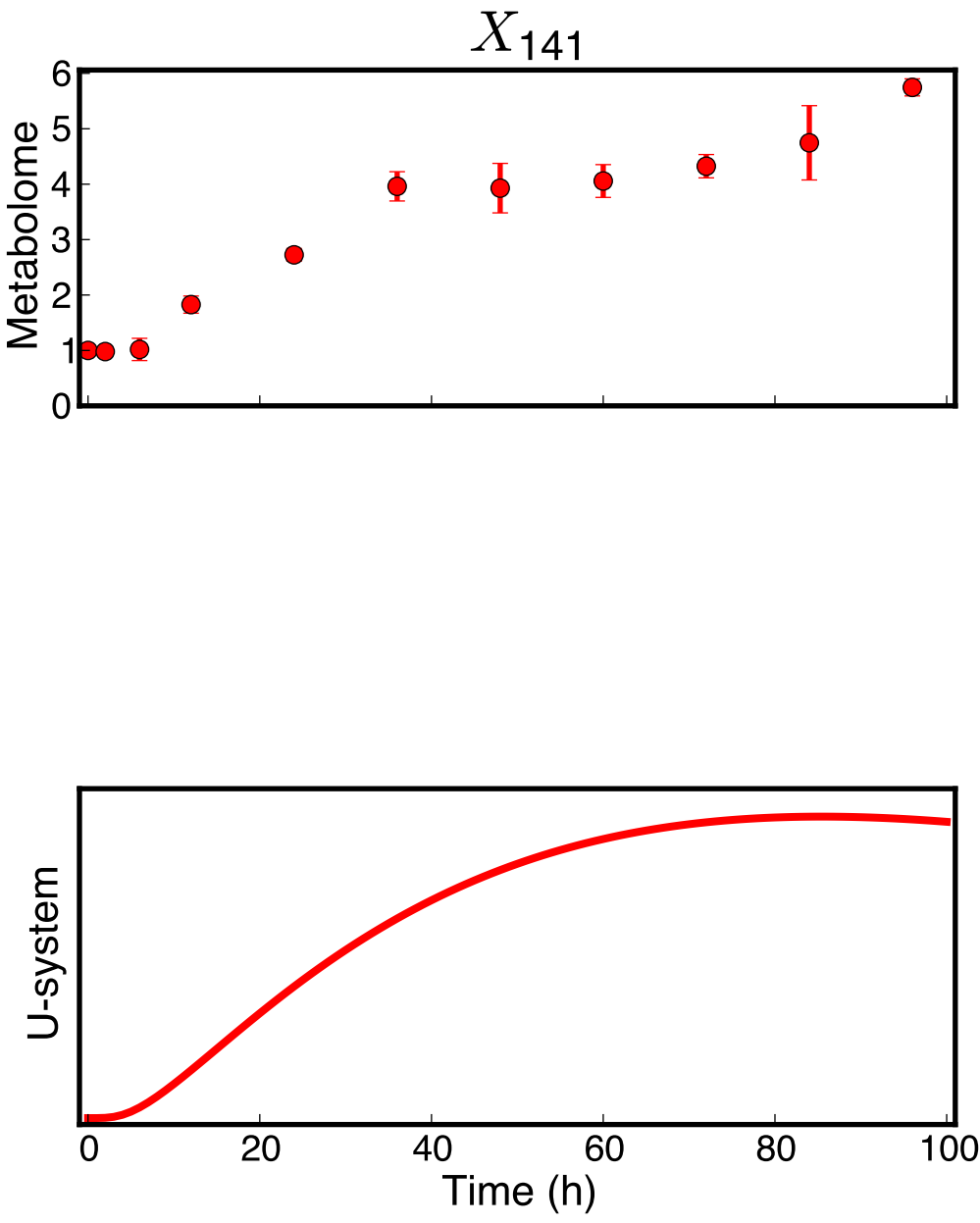
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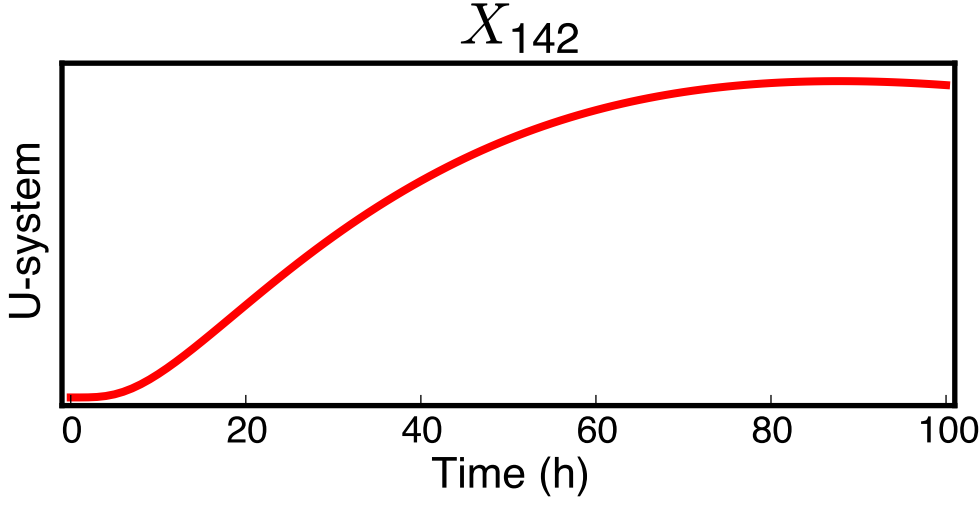
Time (h)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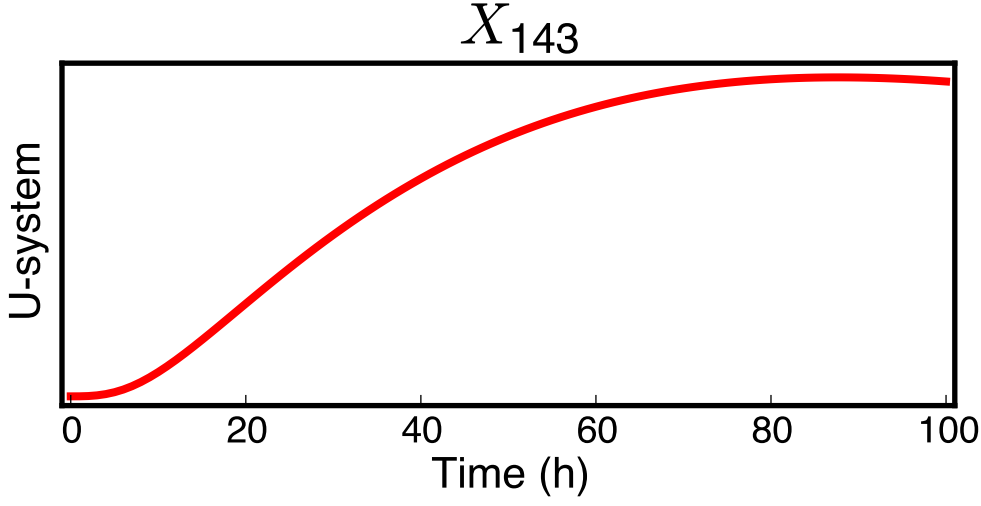
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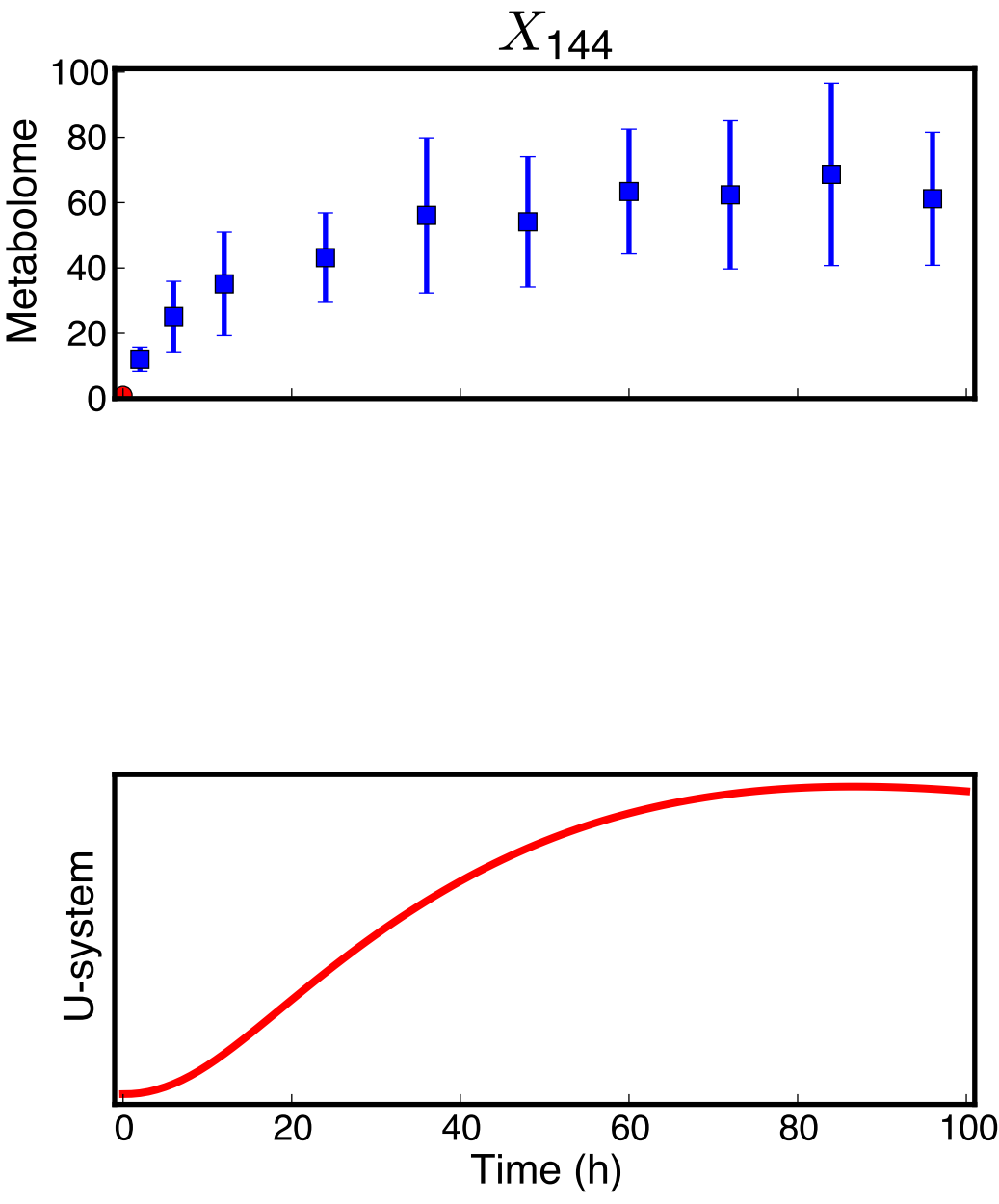
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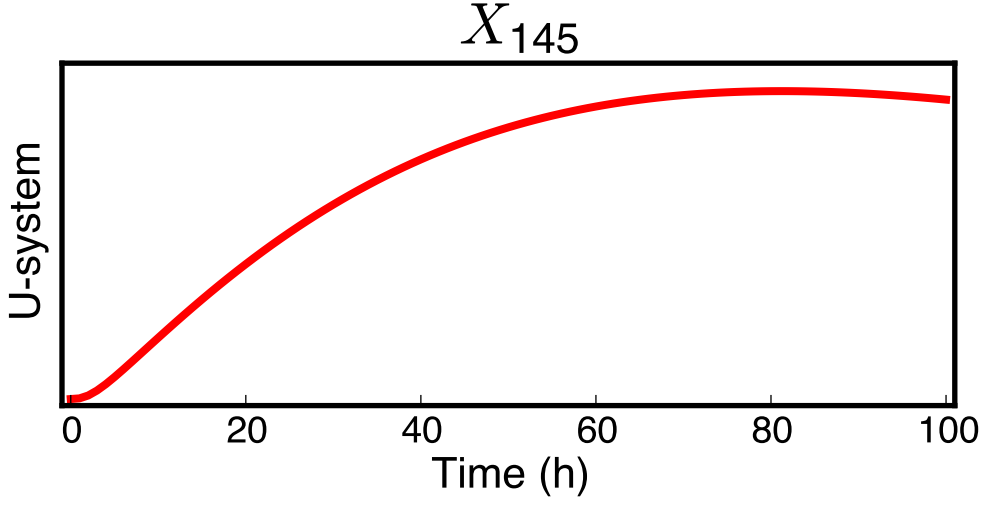
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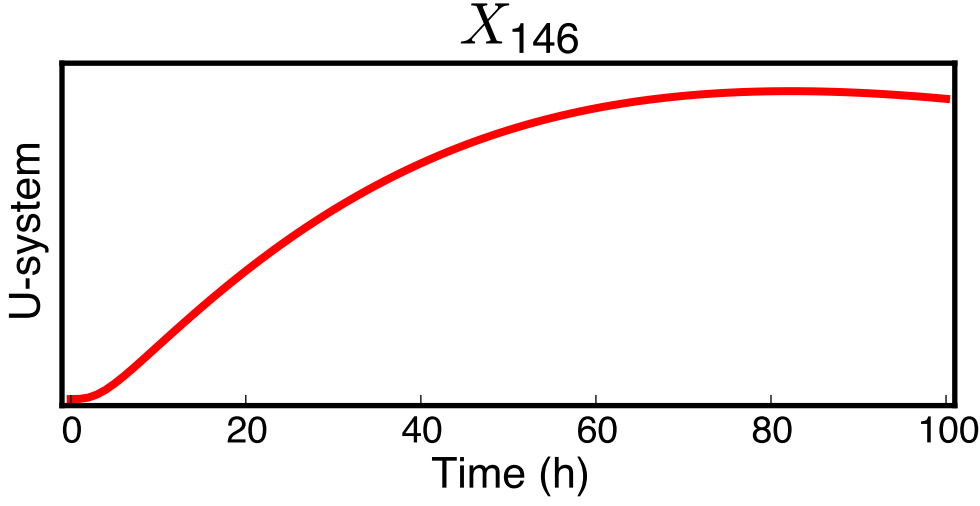
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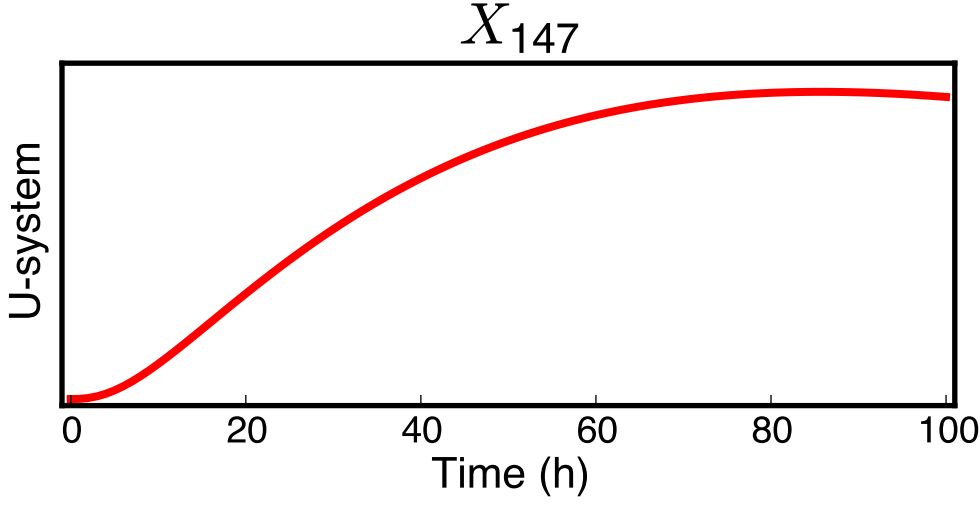
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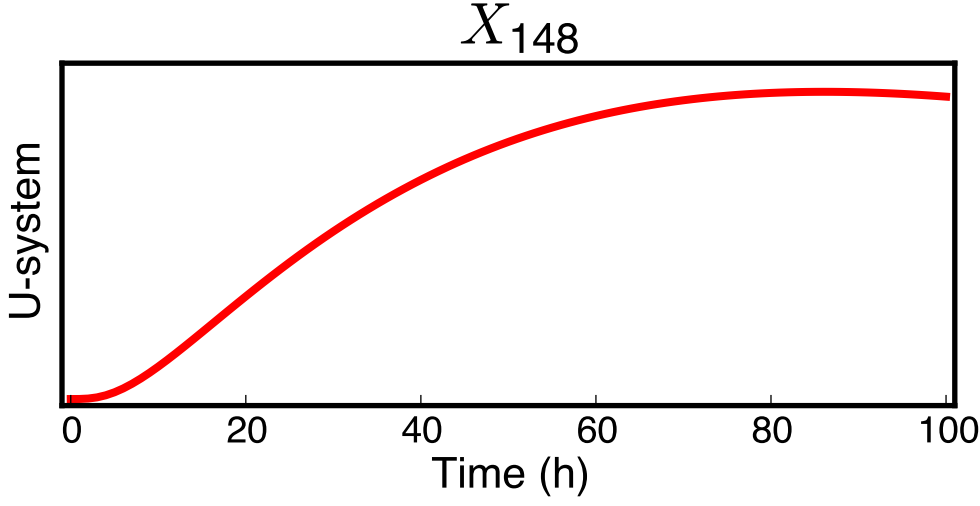
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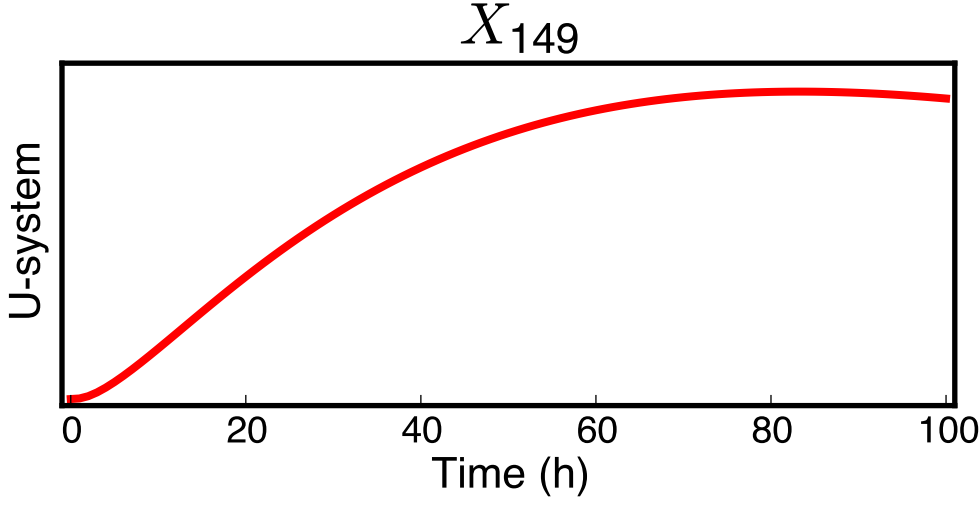
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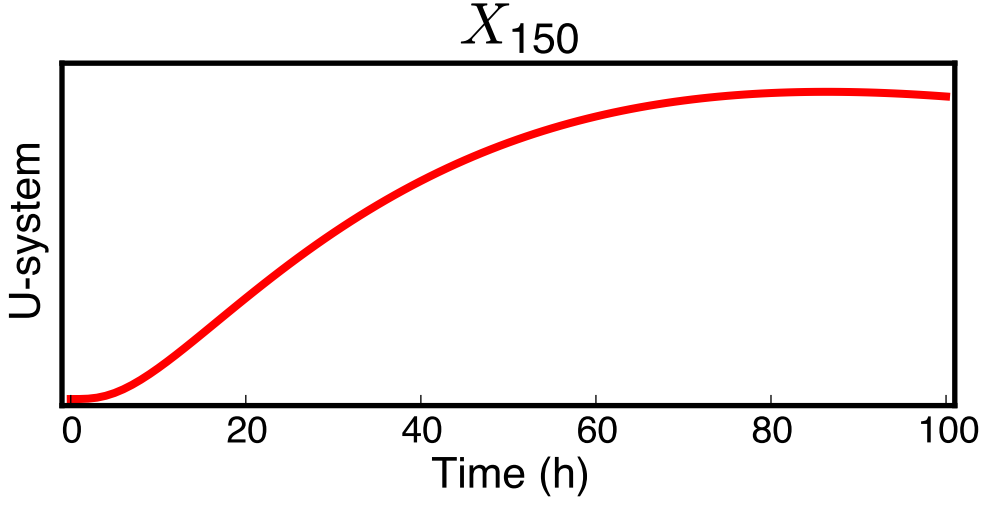
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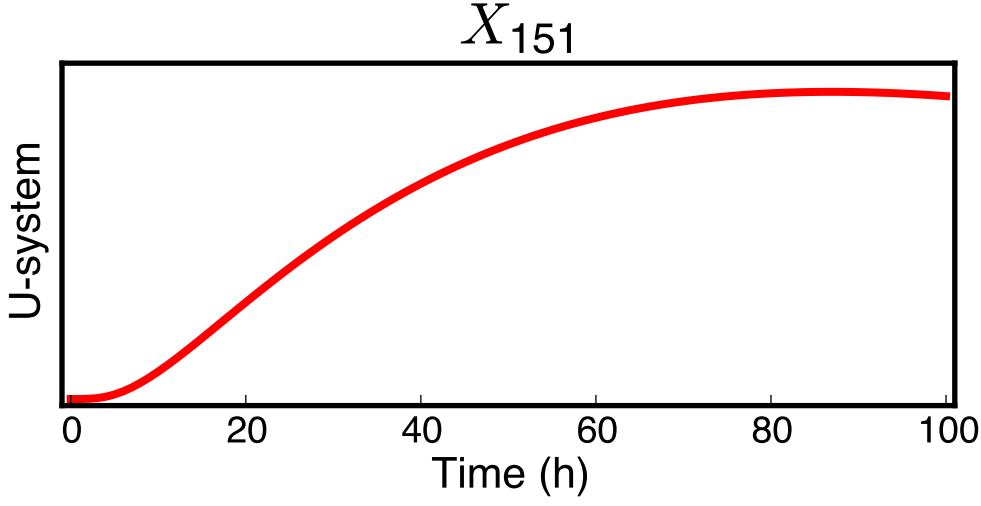
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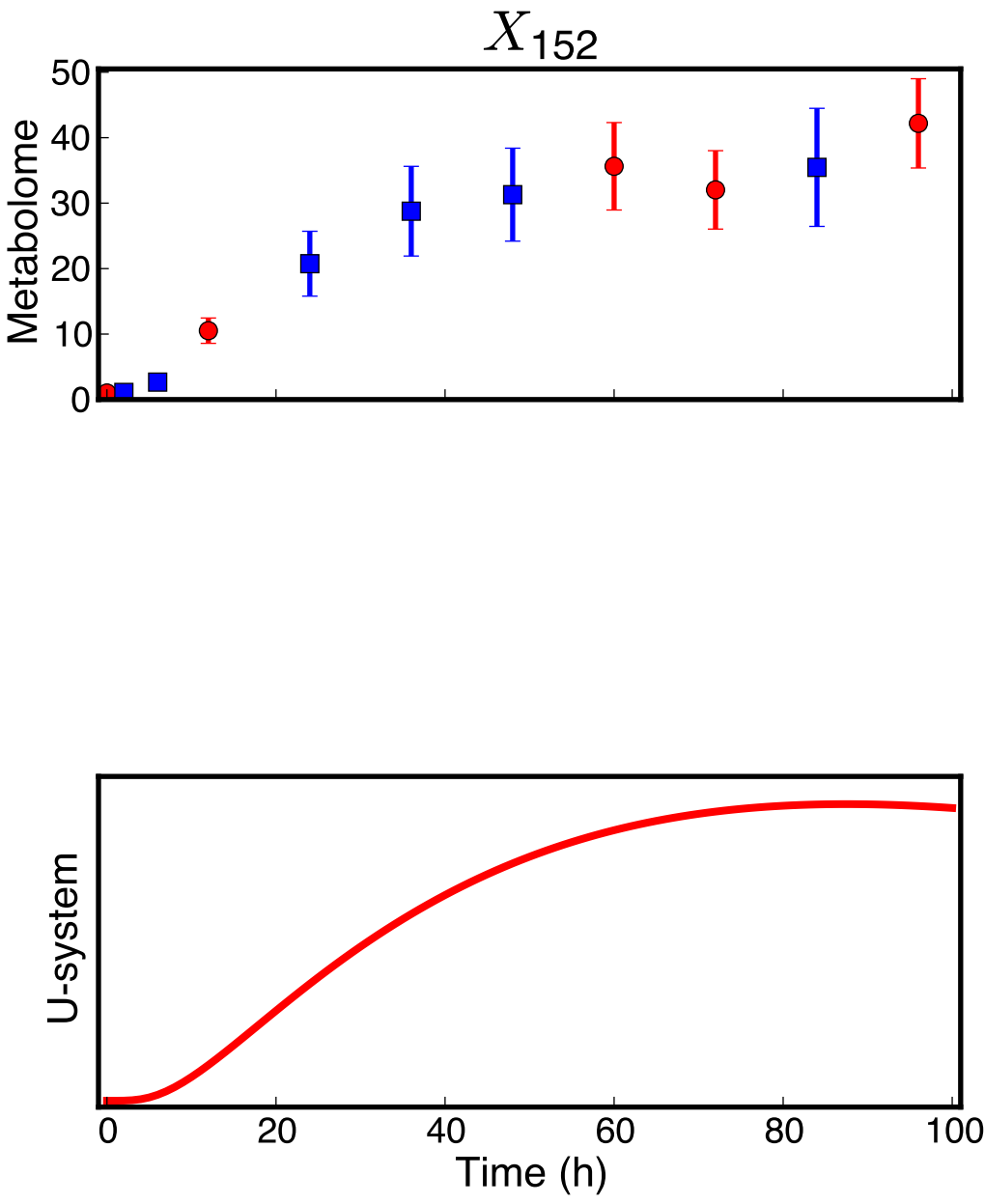
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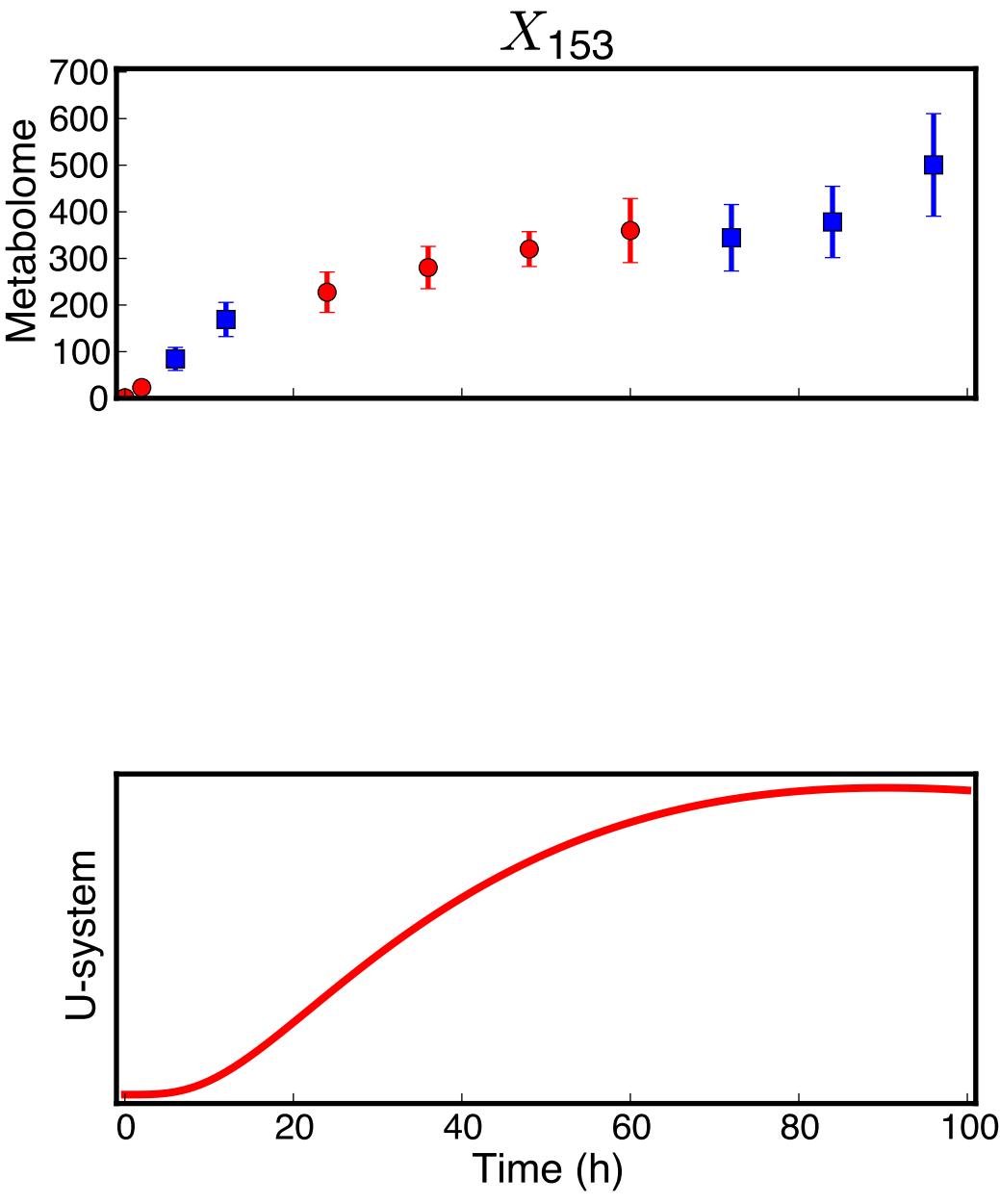
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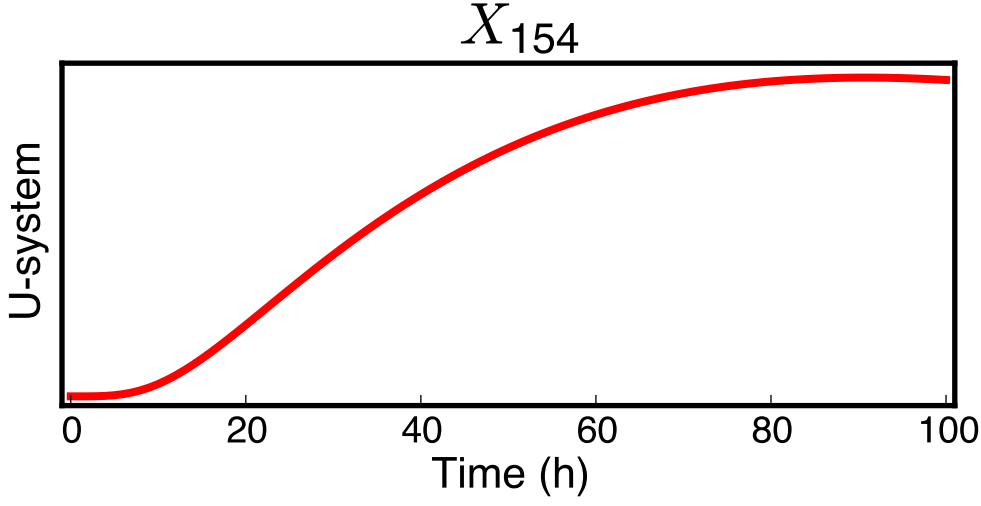
Time (h)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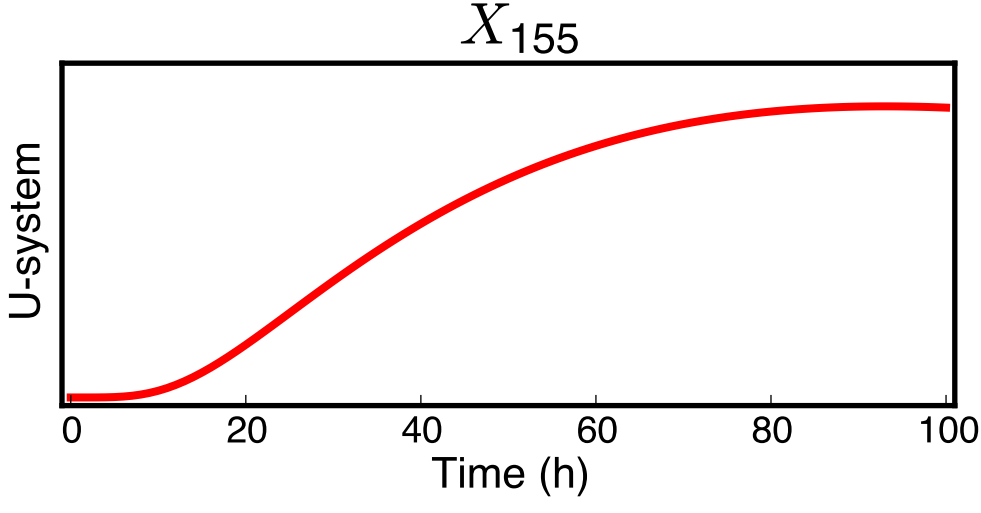
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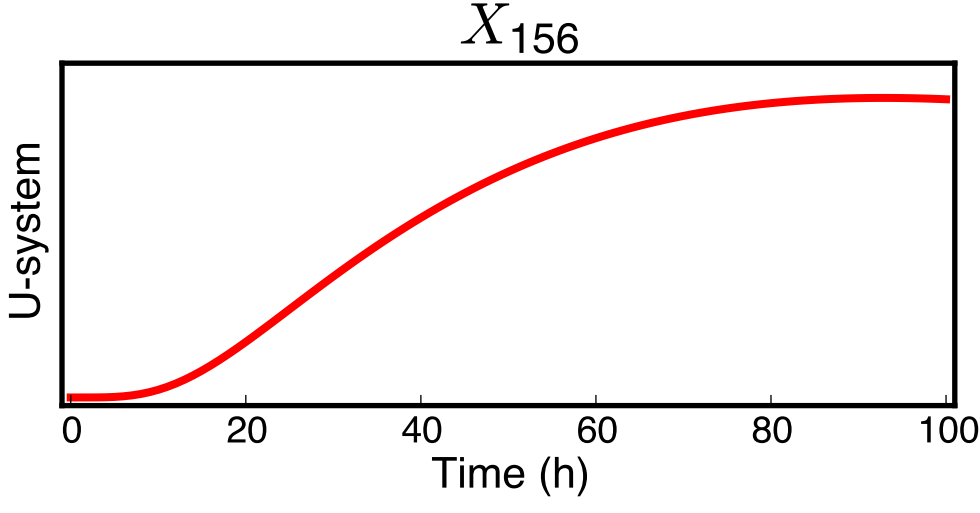
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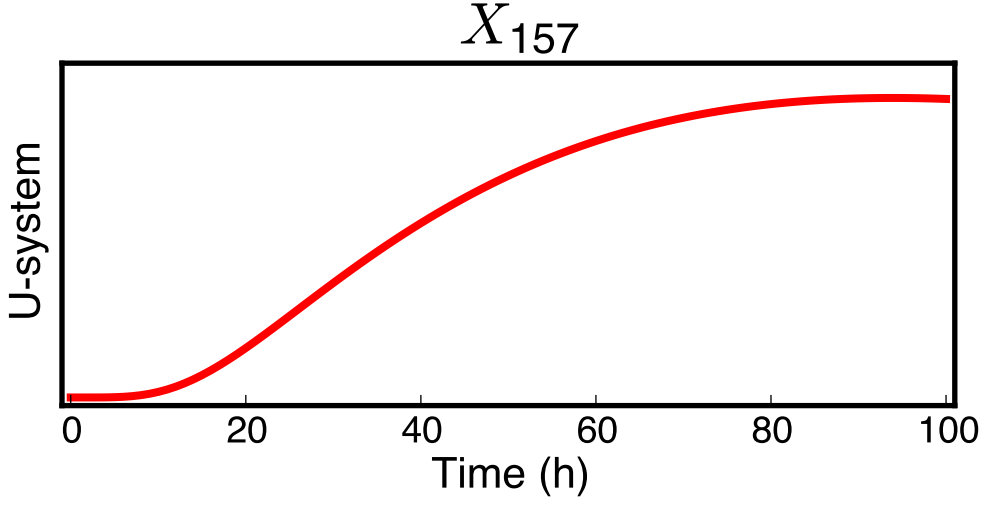
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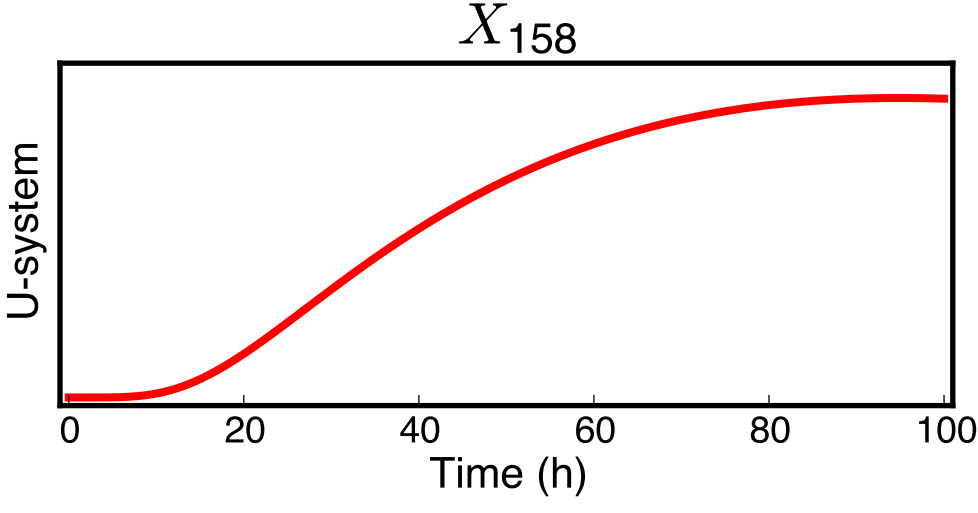
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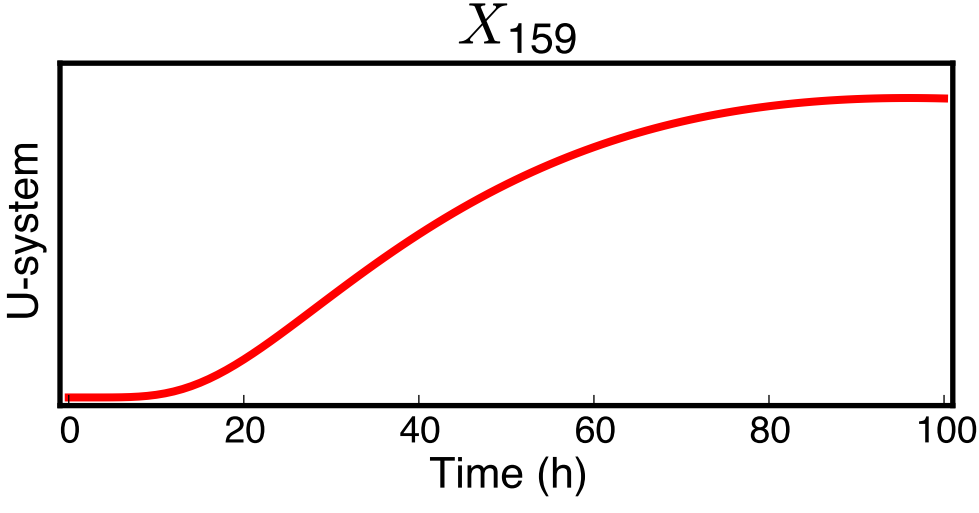
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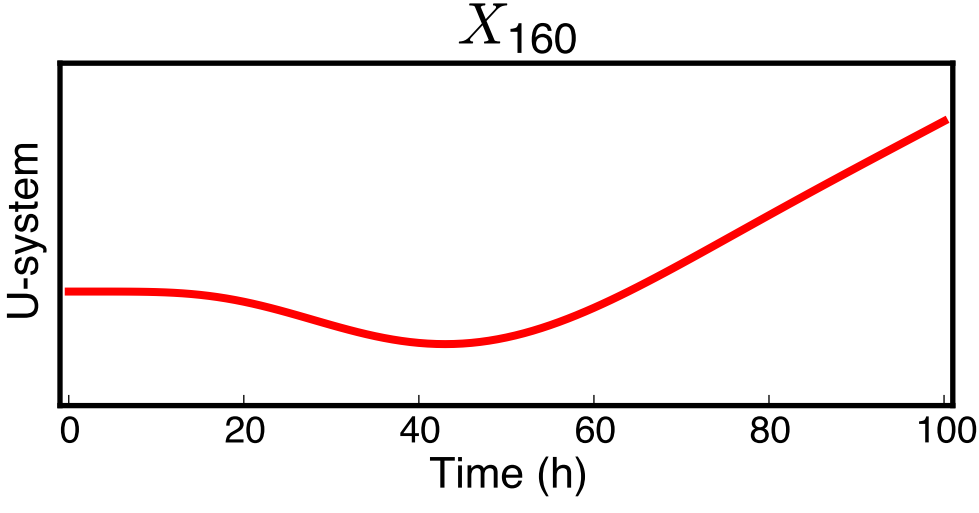
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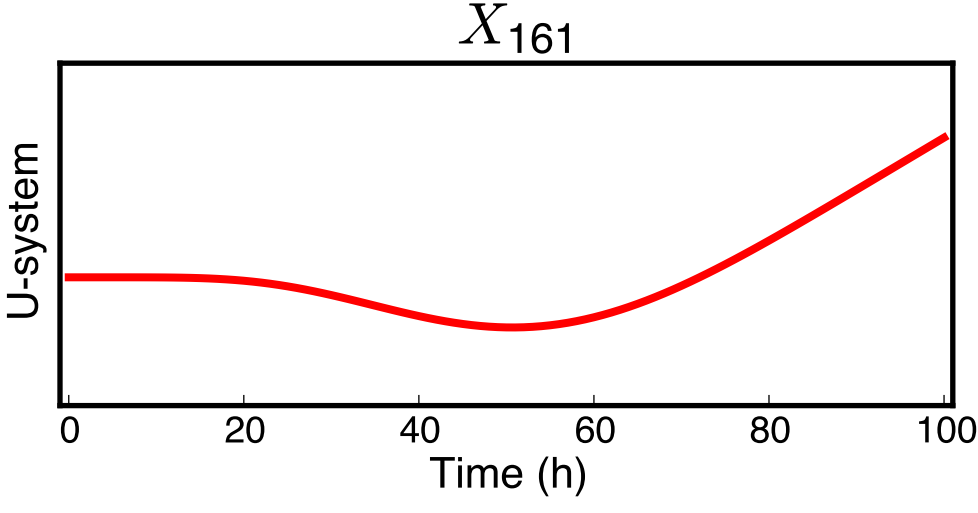
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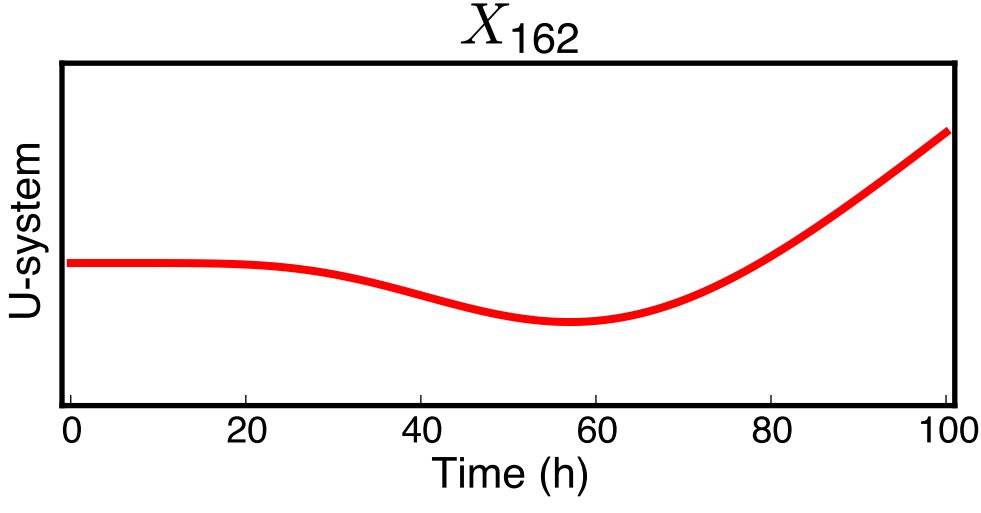
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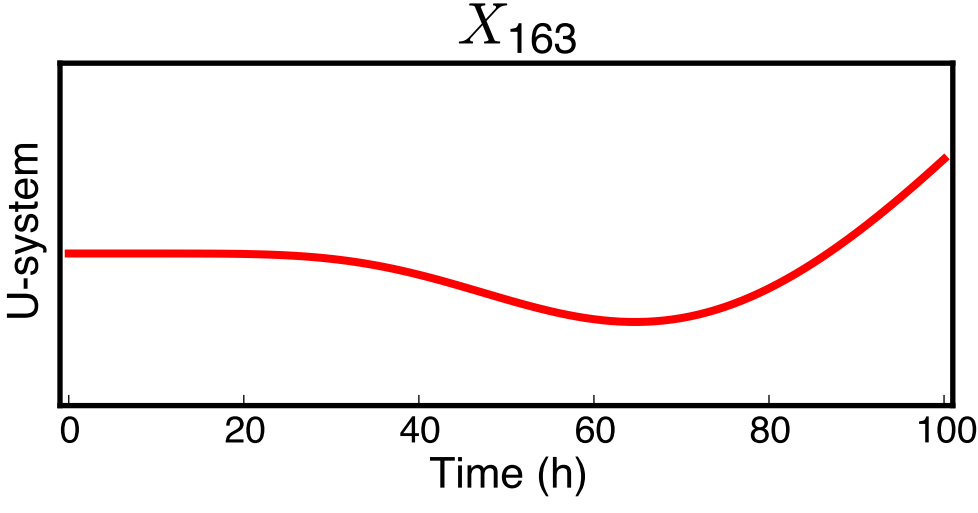
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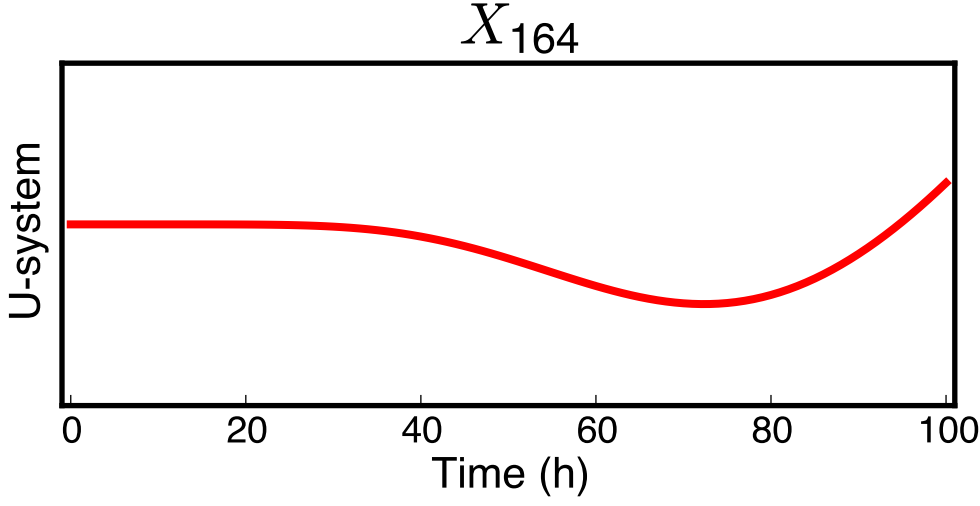
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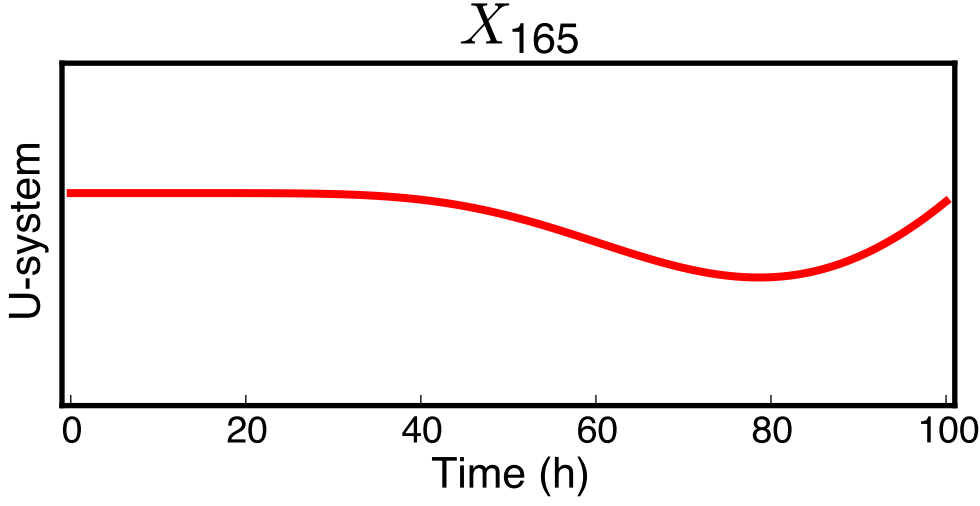
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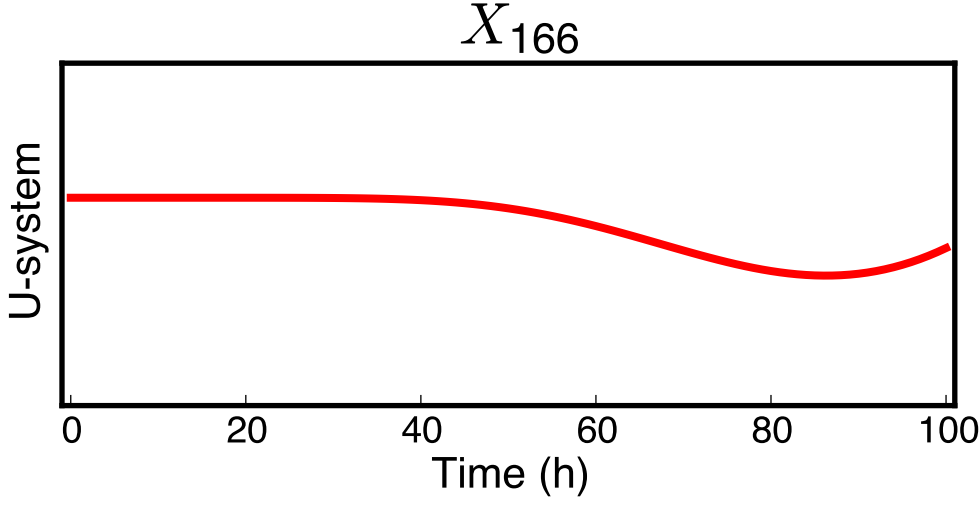
Time (h)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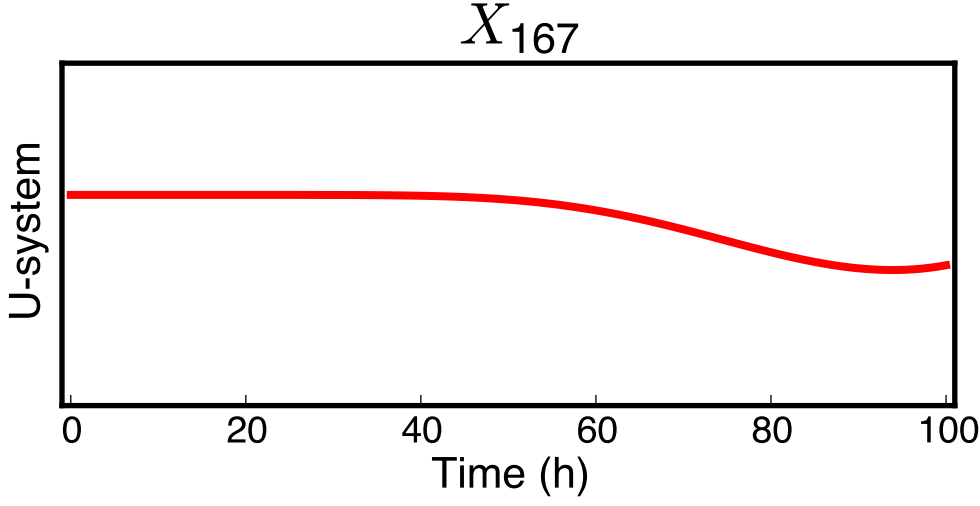
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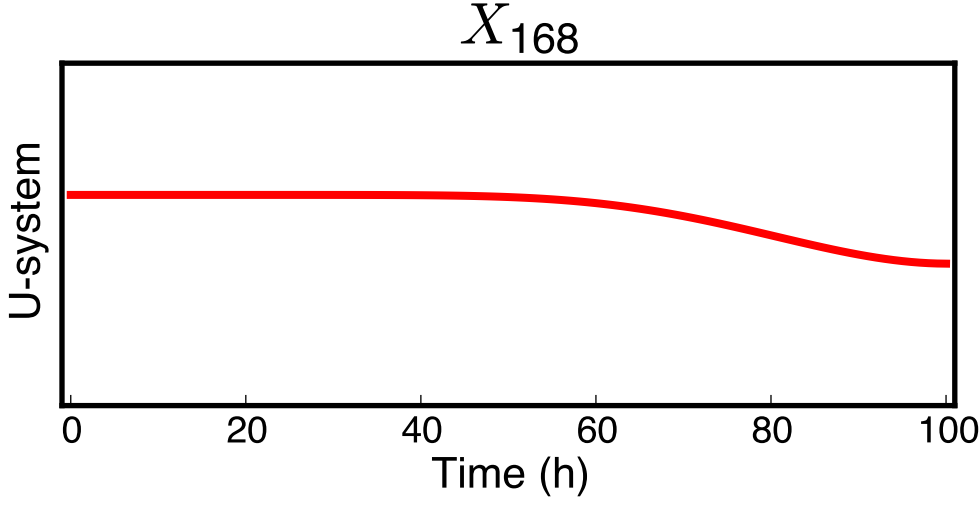
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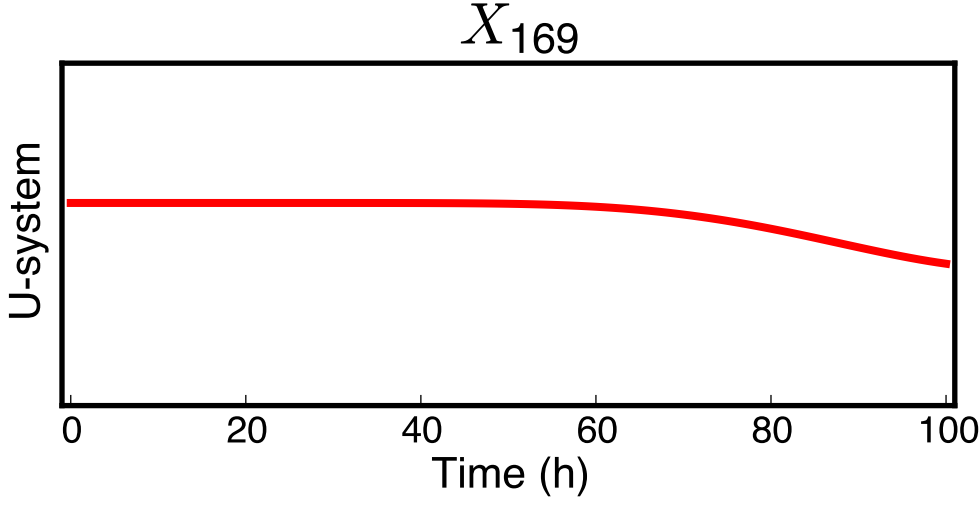
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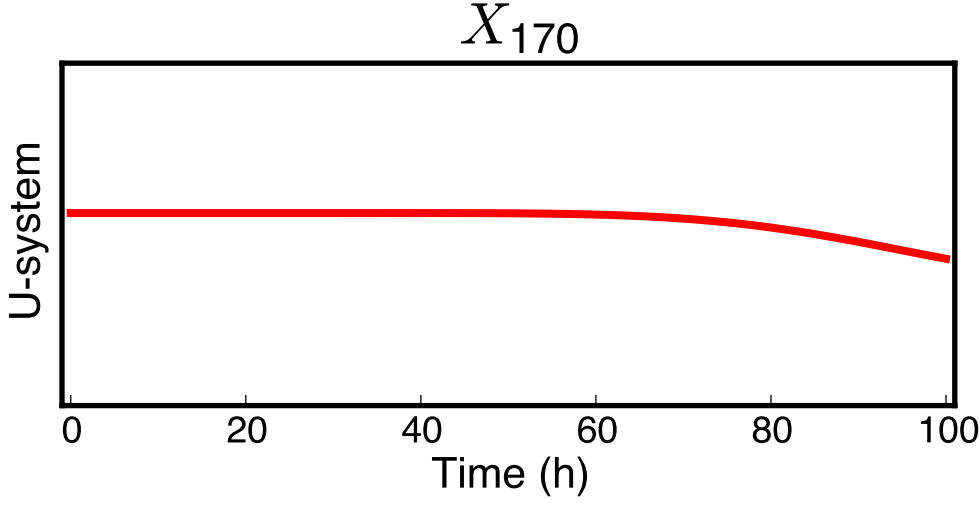
Time (h)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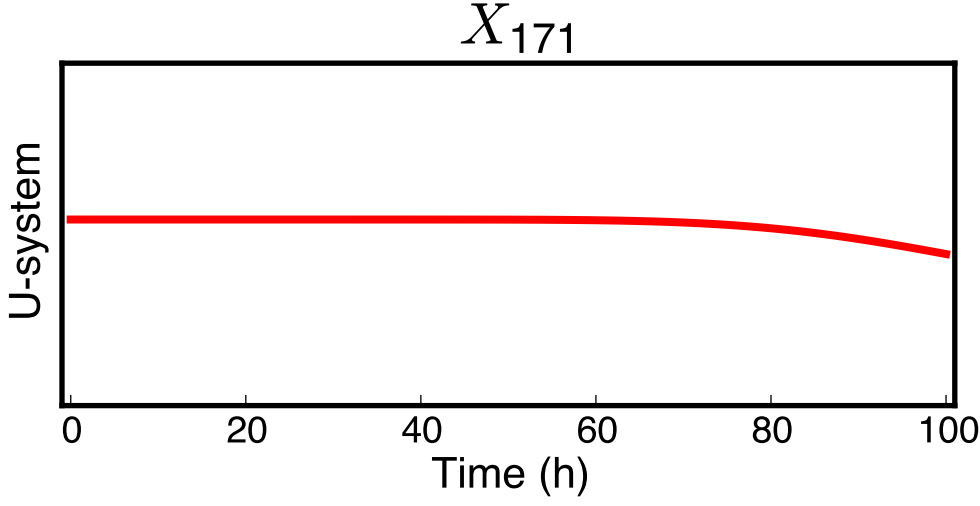
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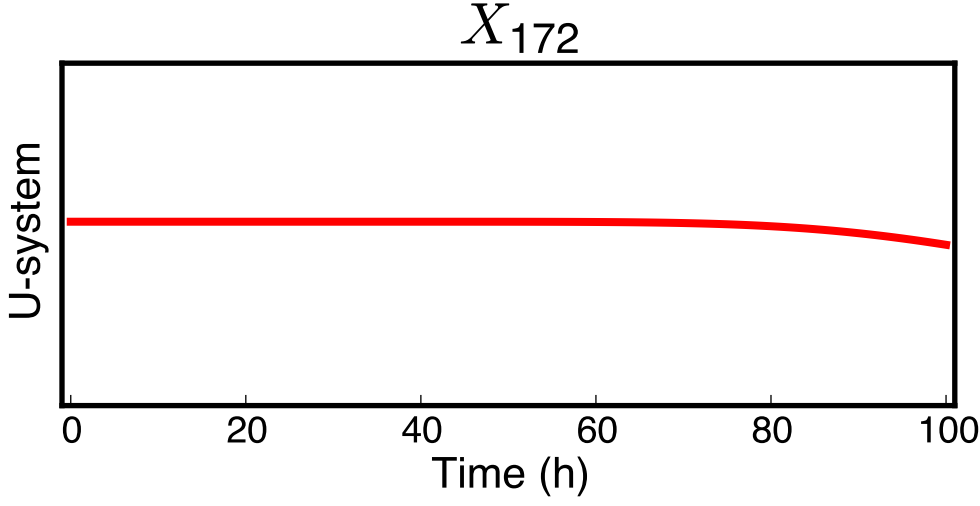
Time (h)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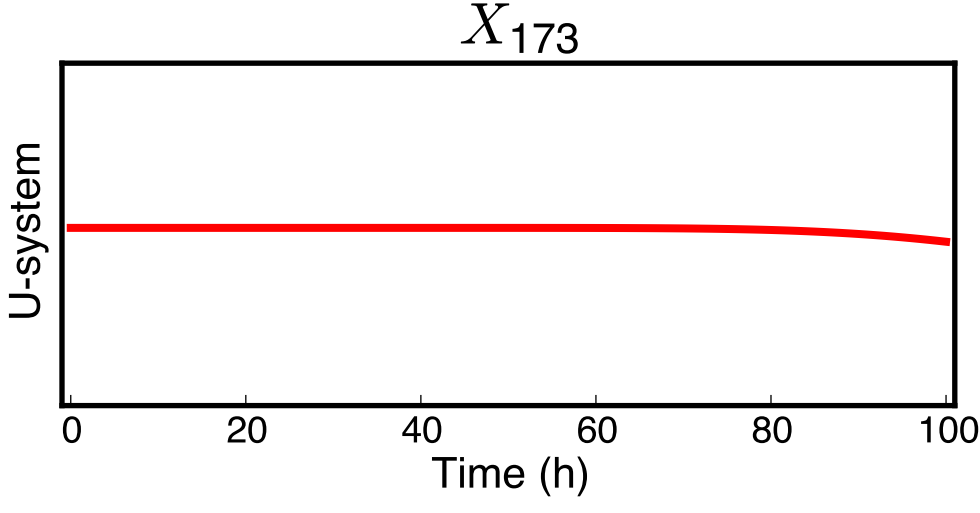
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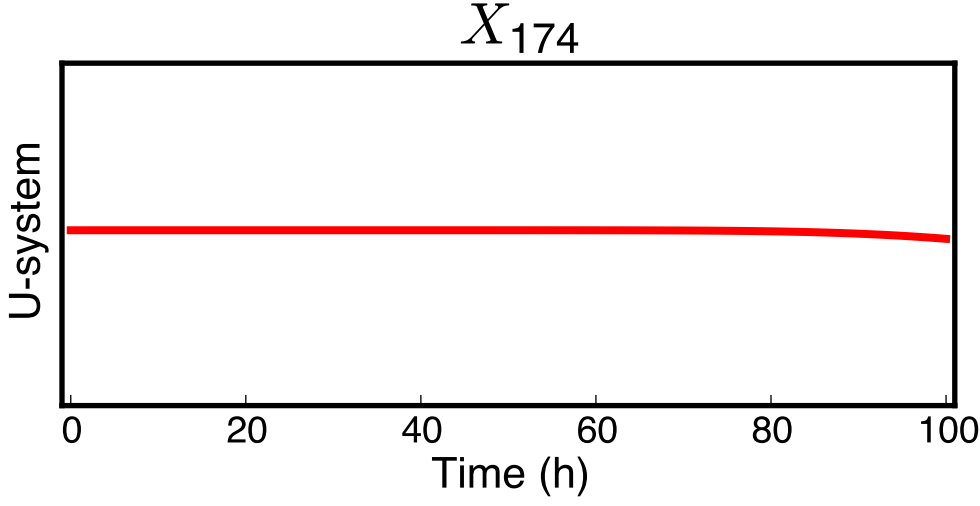
Time (h)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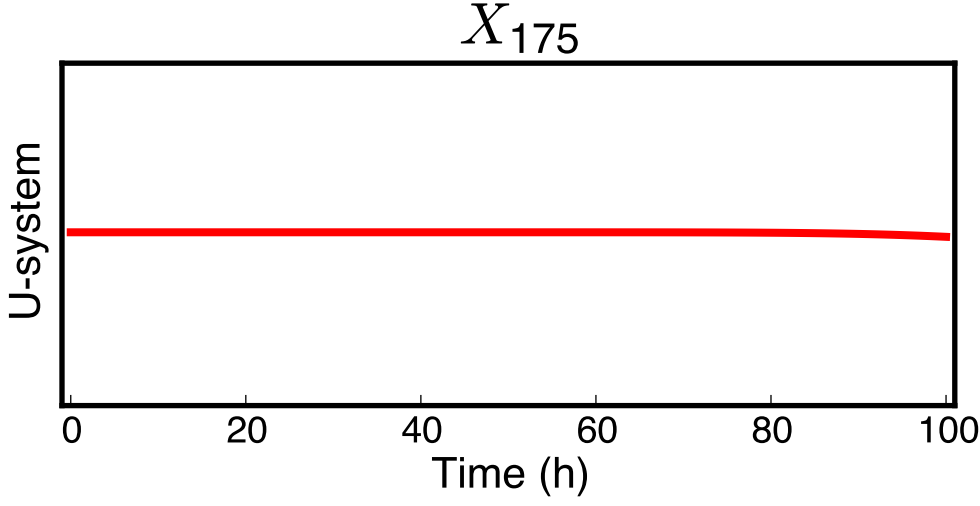
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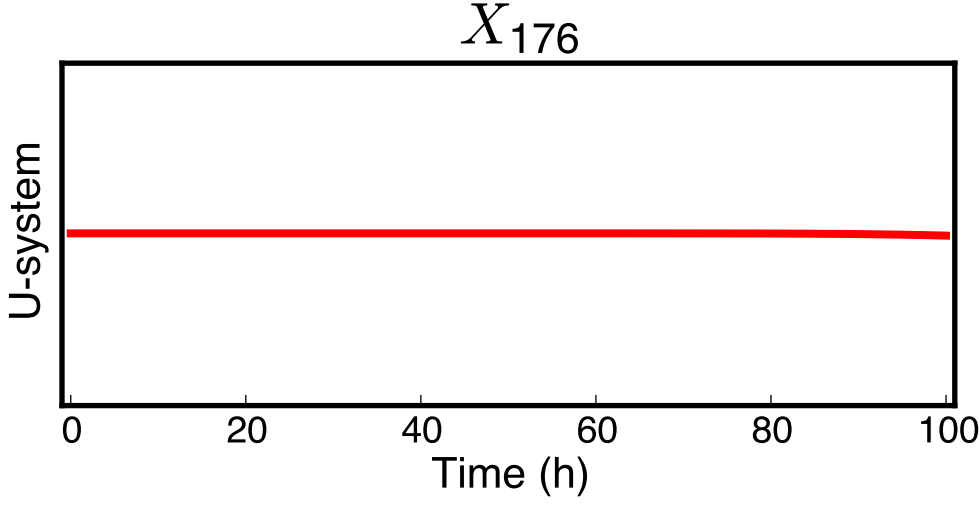
Time (h)


X_{176}
U-system
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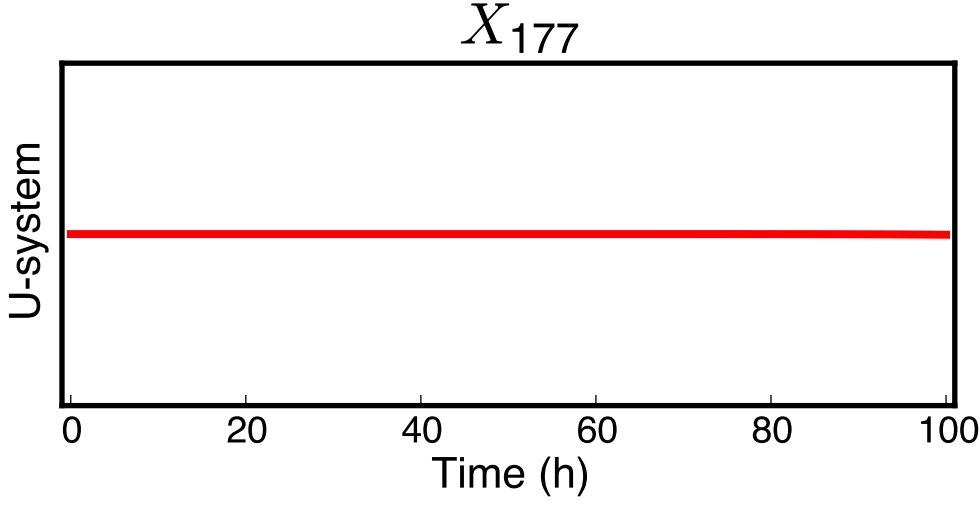
80
100
Time (h)


X_{177}
U-system
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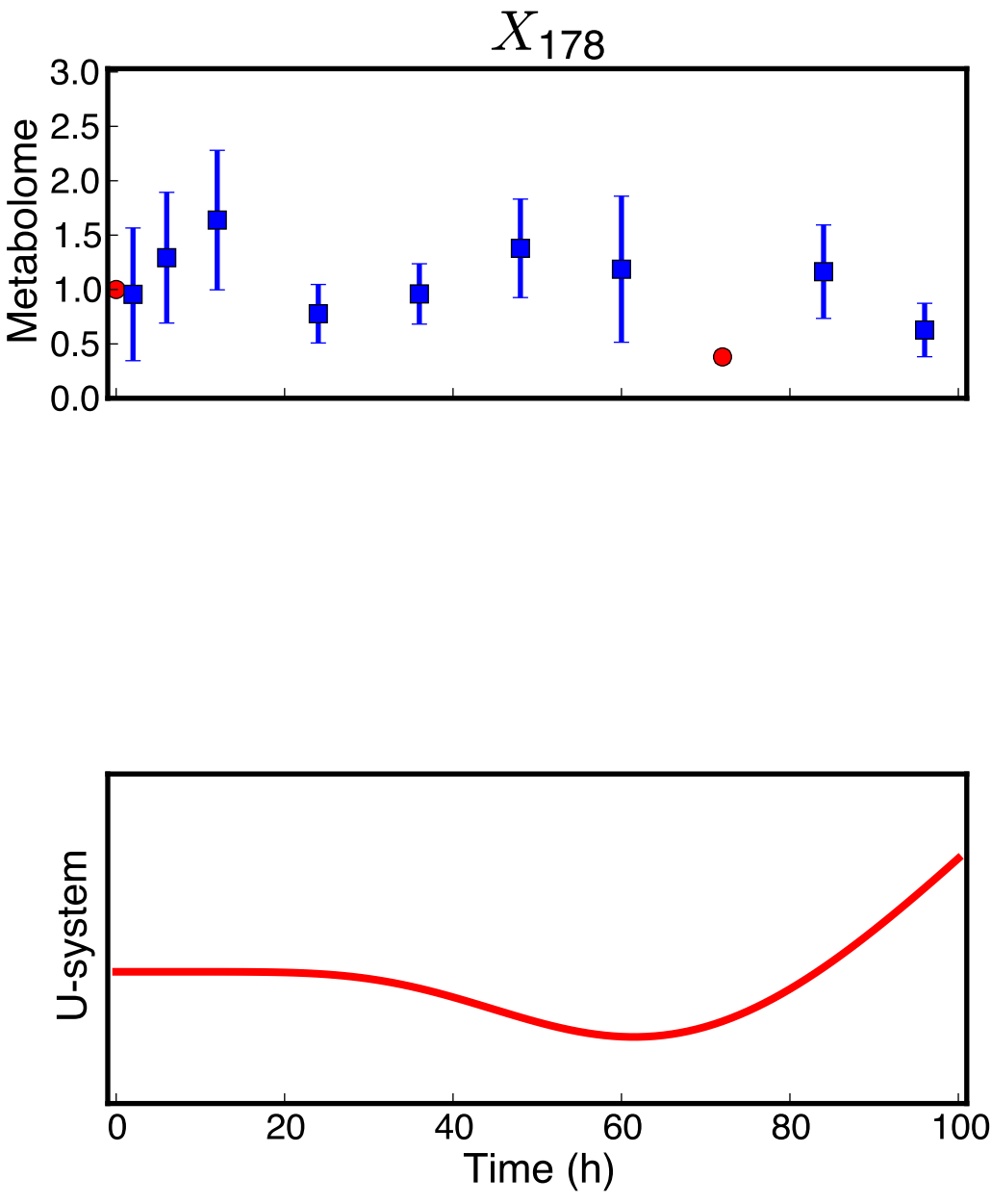
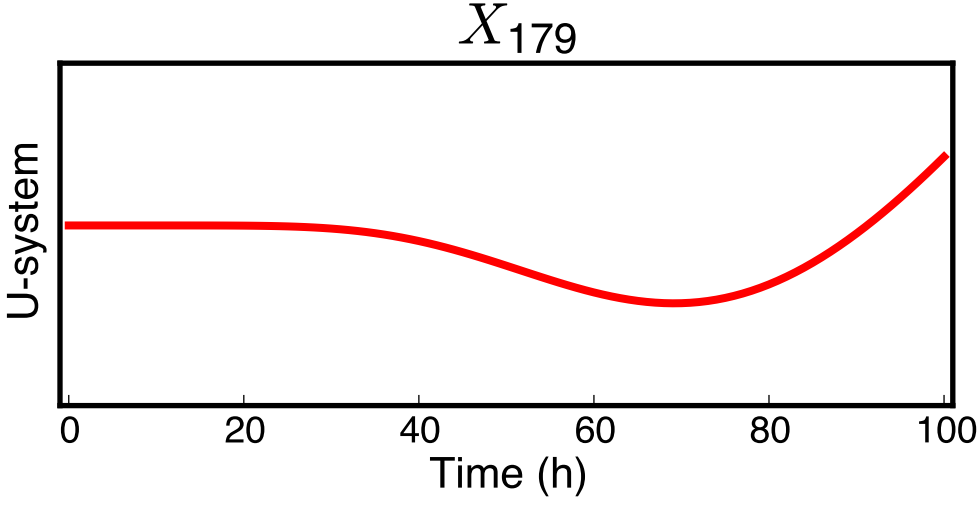
100
Time (h)


X_{178}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{179}
U-system
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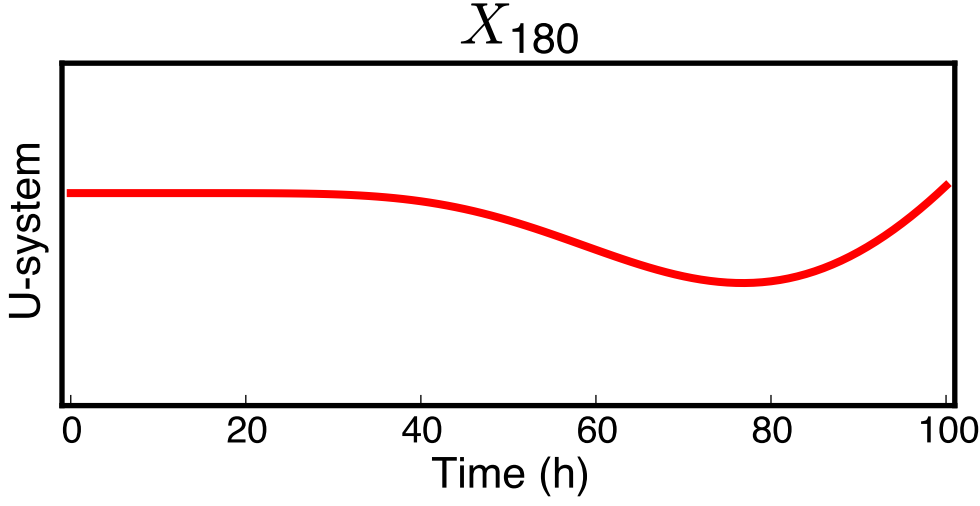
Time (h)


X_{180}
U-system
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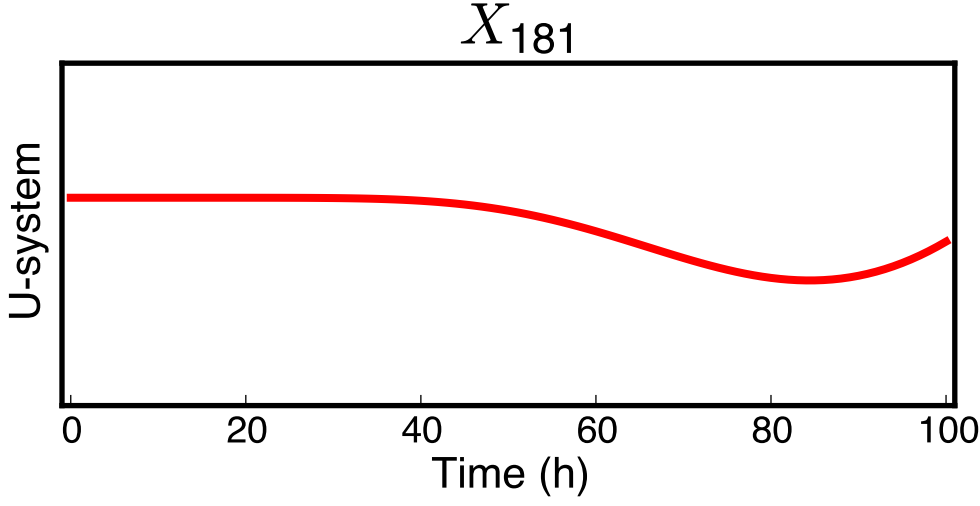
100
Time (h)


X_{181}
U-system
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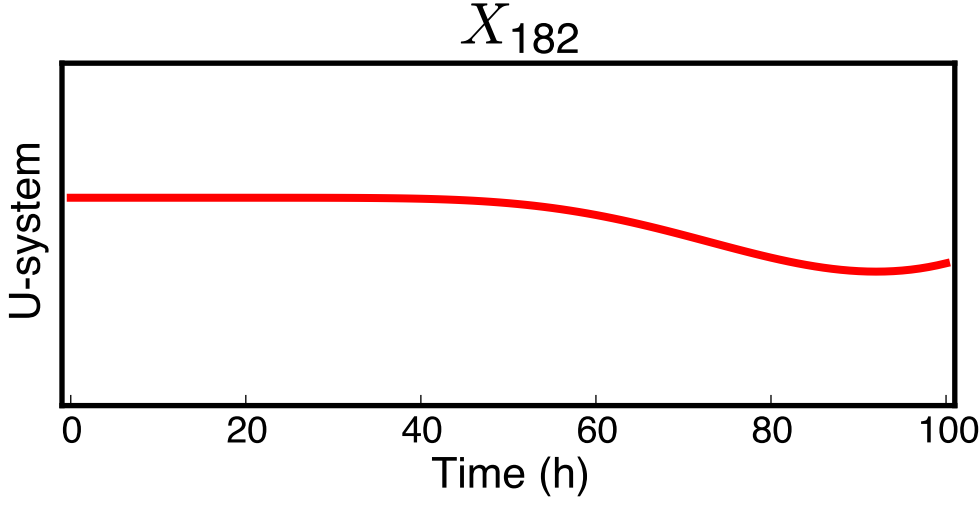
100
Time (h)


X_{182}
U-system
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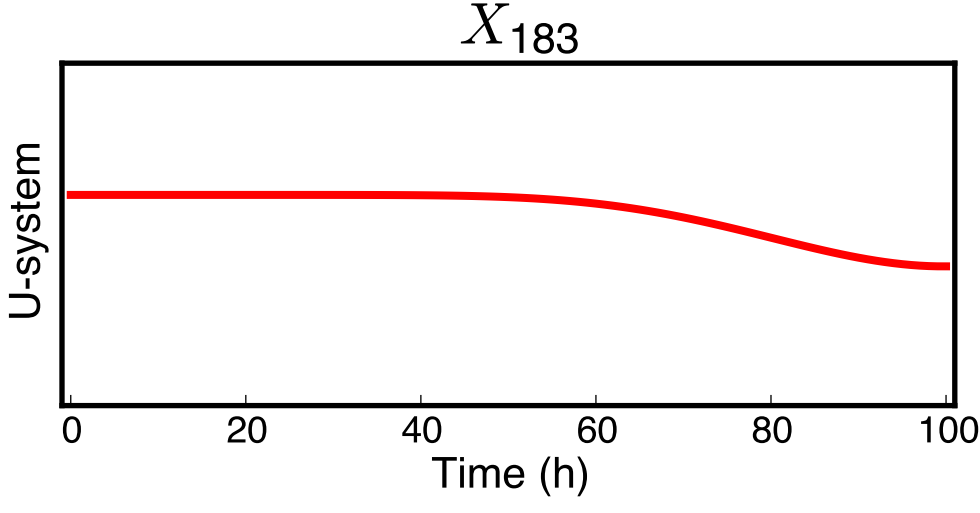
100
Time (h)


X_{183}
U-system
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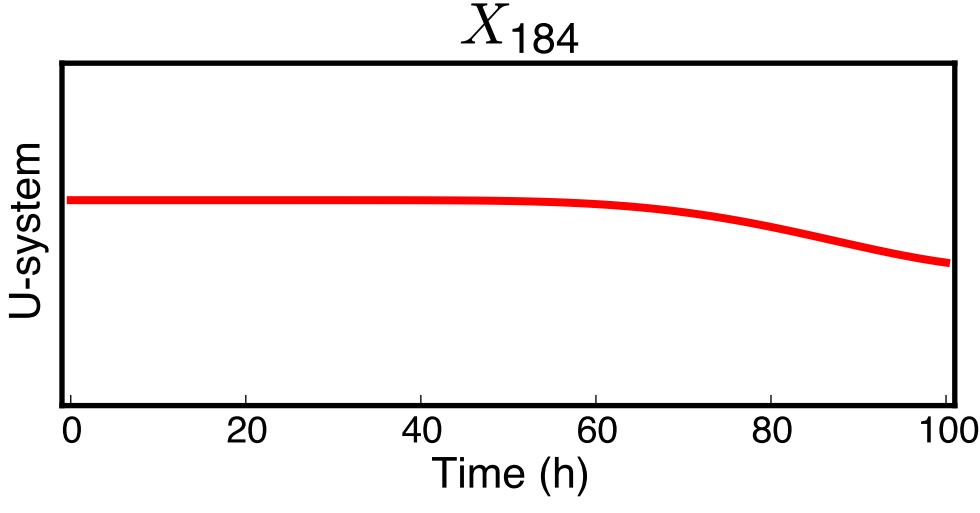
80
100
Time (h)


X_{184}
U-system
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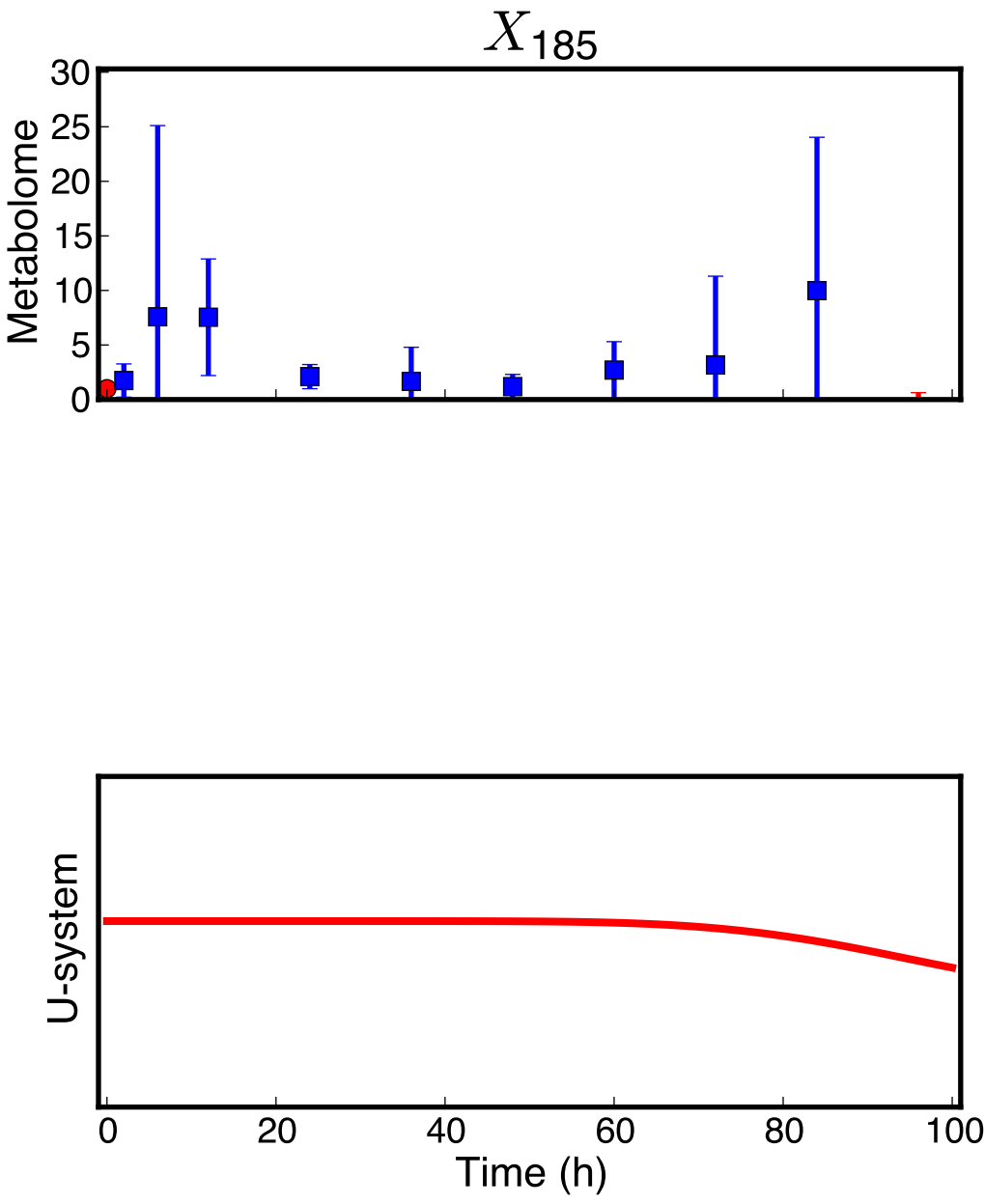
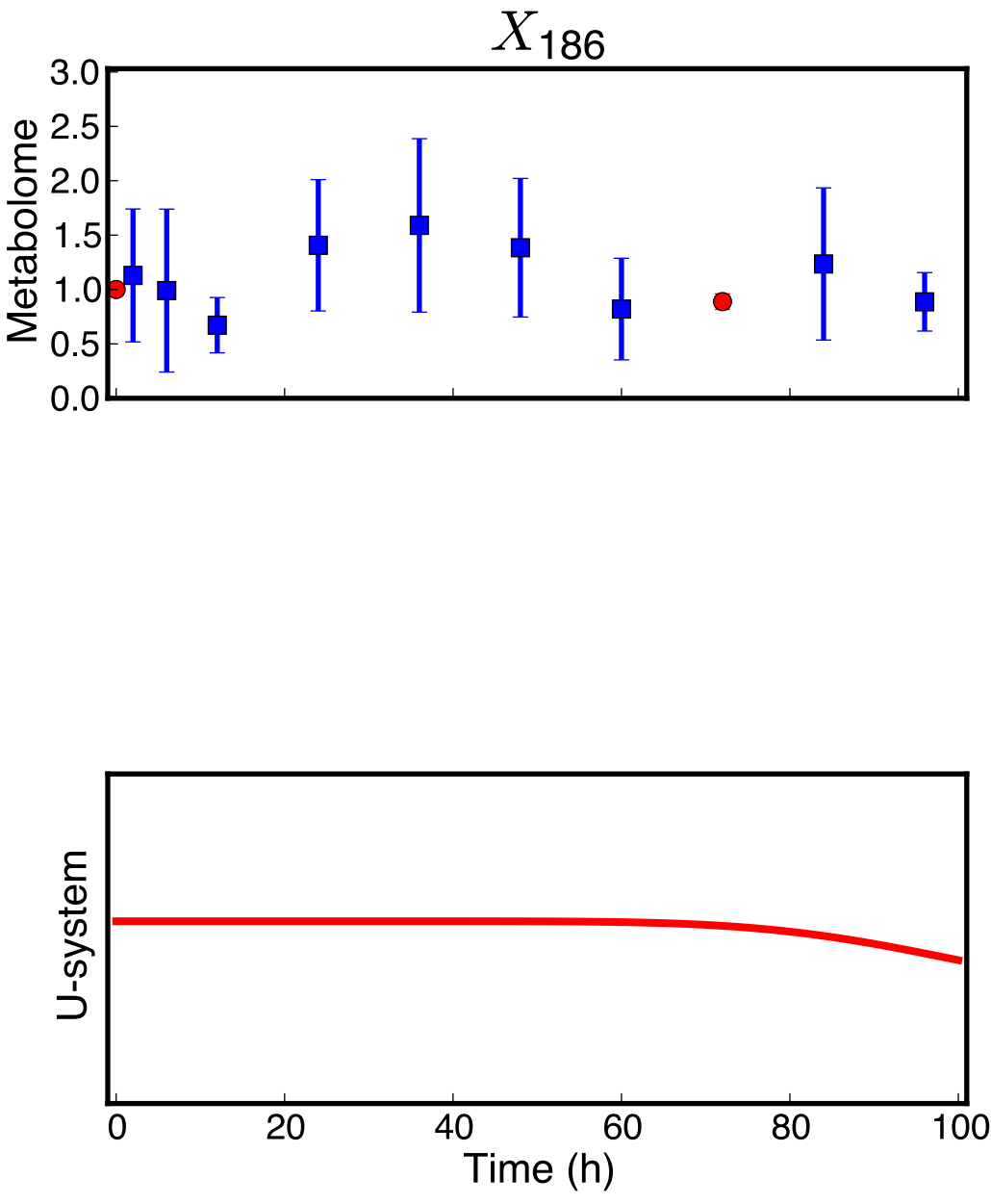
100
Time (h)


X_{185}
Metabolome
30
25
20
15
10
5
0
U-system
0
20
40
60
80
100
Time (h)


X_{186}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
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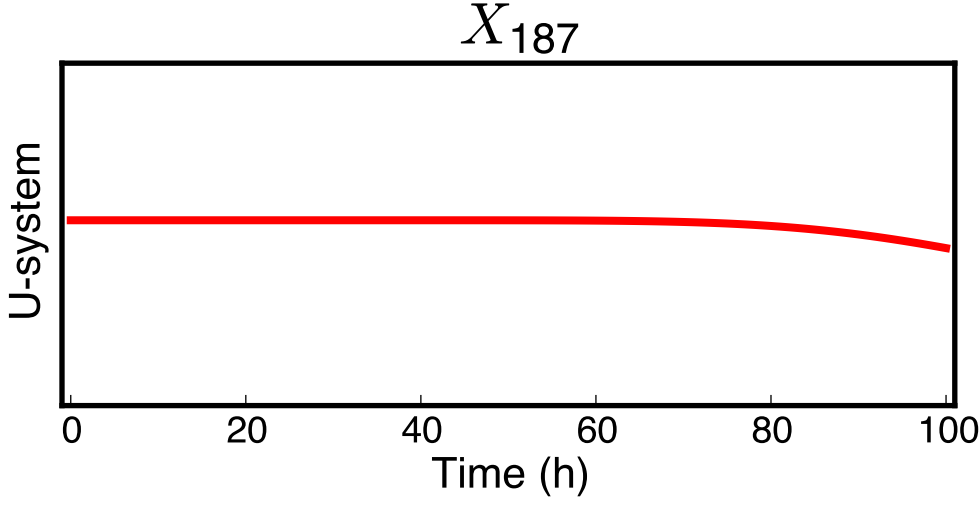
80
100
Time (h)


X_{187}
U-system
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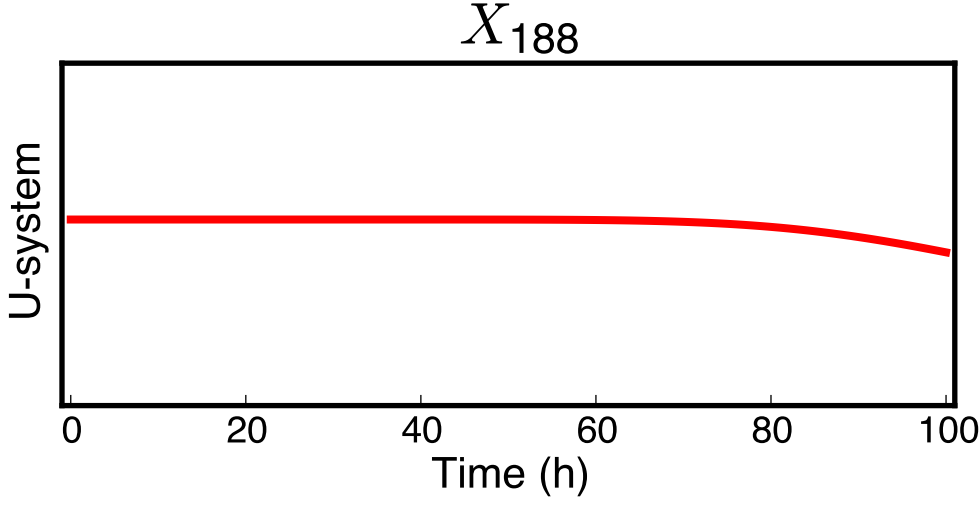
Time (h)


X_{188}
U-system
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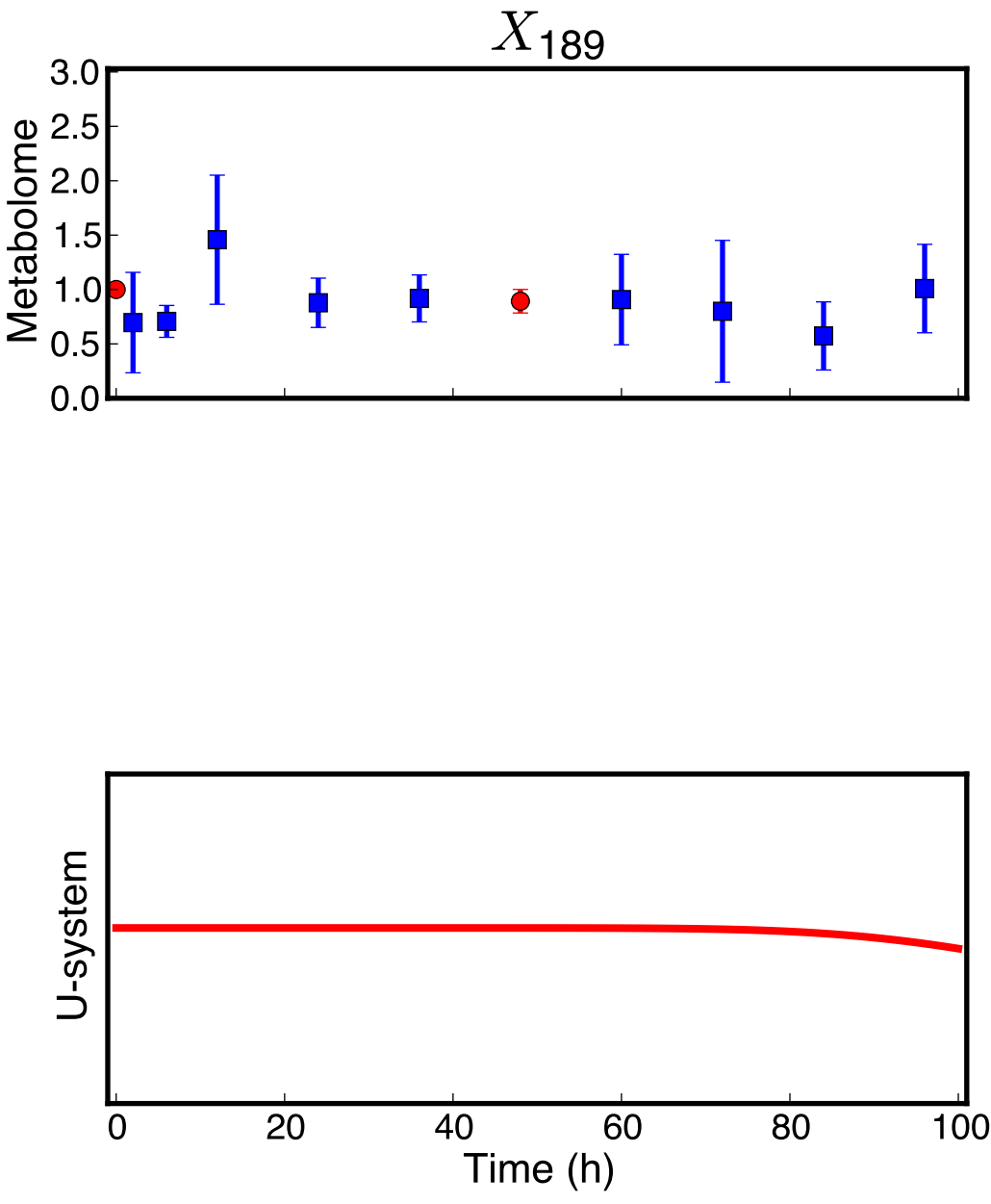
Time (h)


X_{189}
Metabolome
3.0
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2.0
1.5
1.0
0.5
0.0
U-system
0
20
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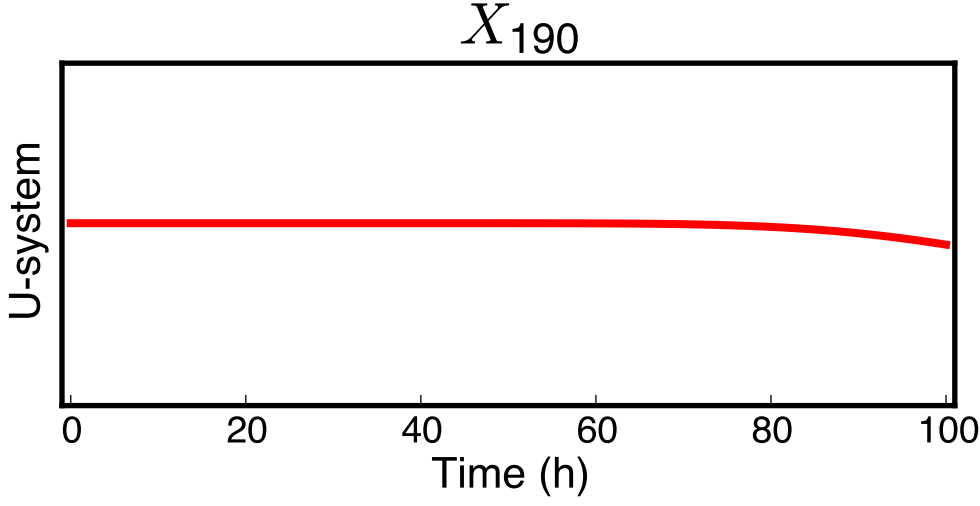
80
100
Time (h)


X_{190}
U-system
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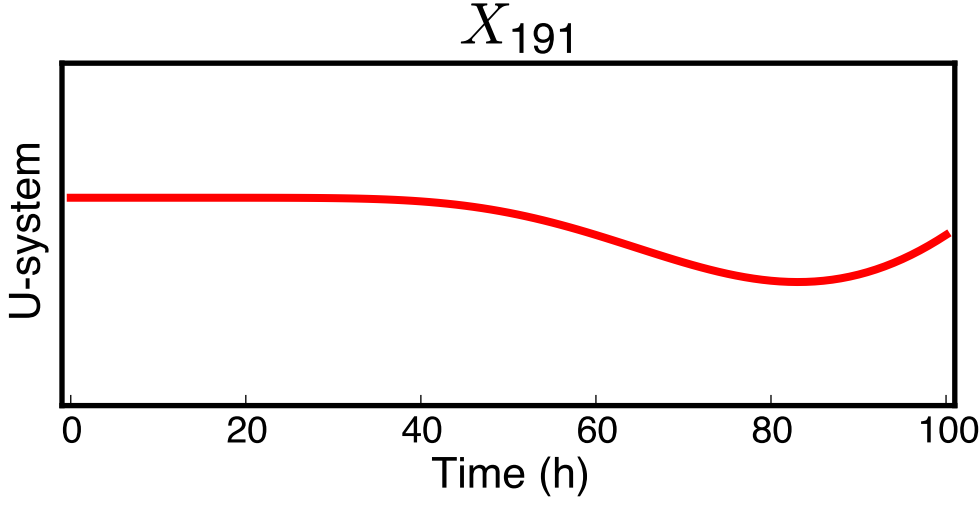
Time (h)


X_{191}
U-system
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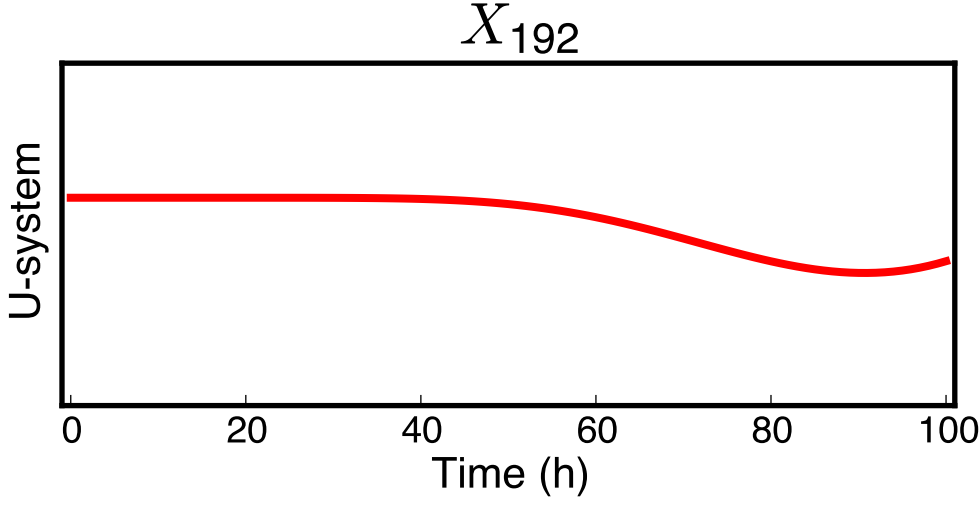
Time (h)


X_{192}
U-system
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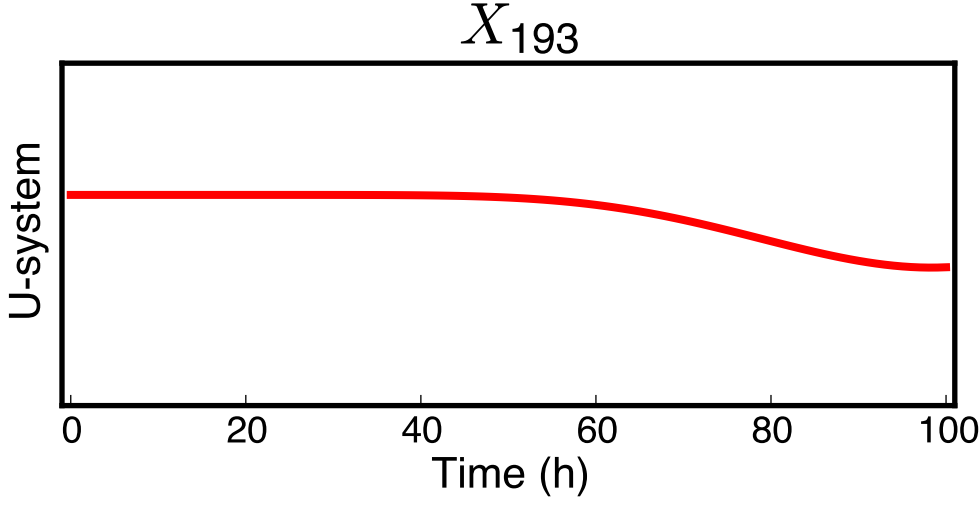
Time (h)


X_{193}
U-system
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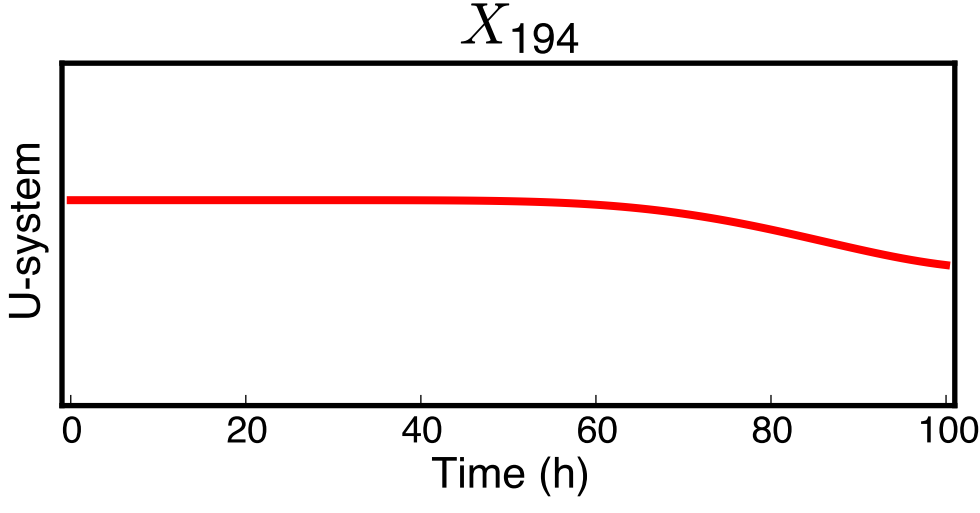
Time (h)


X_{194}
U-system
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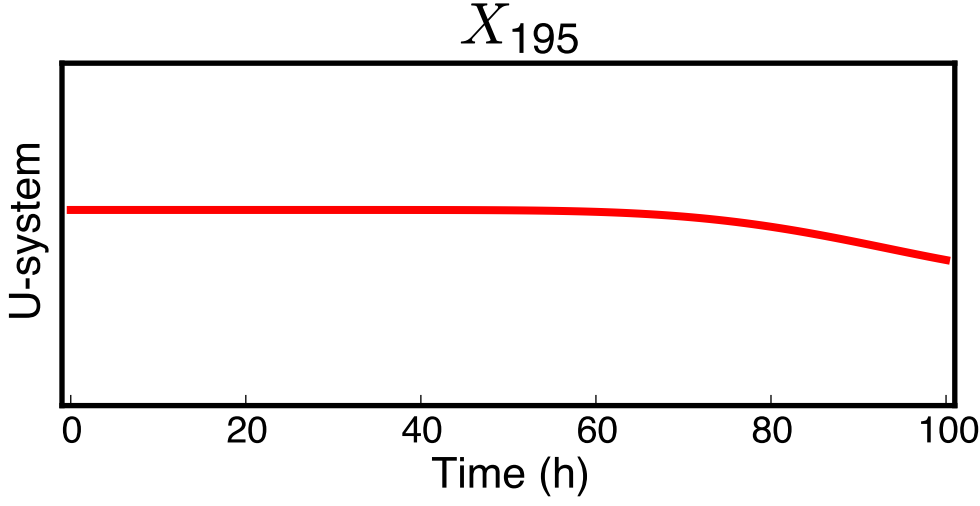
100
Time (h)


X_{195}
U-system
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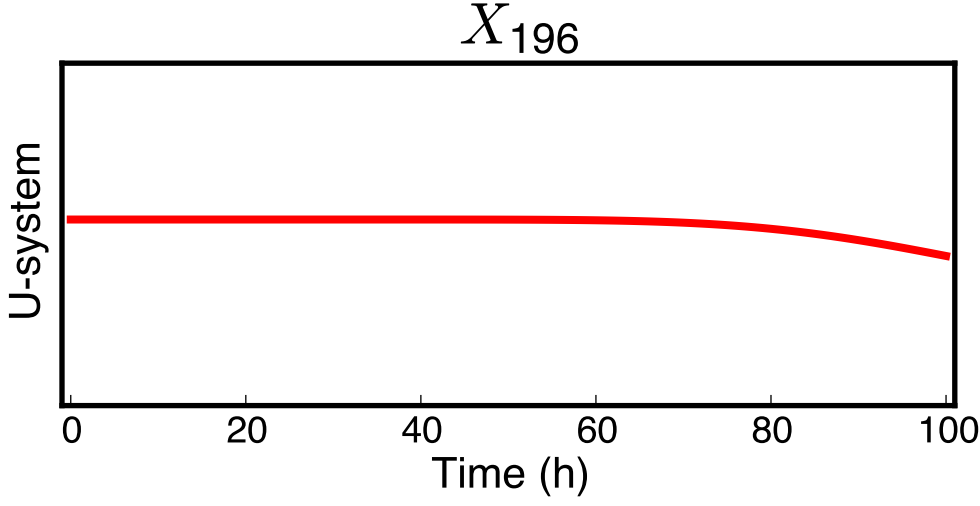
100
Time (h)


X_{196}
U-system
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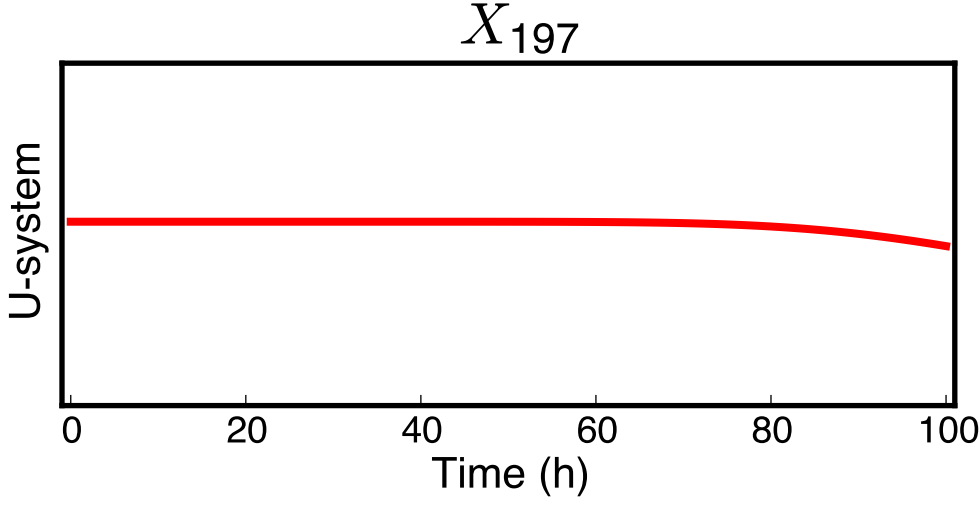
Time (h)


X_{197}
U-system
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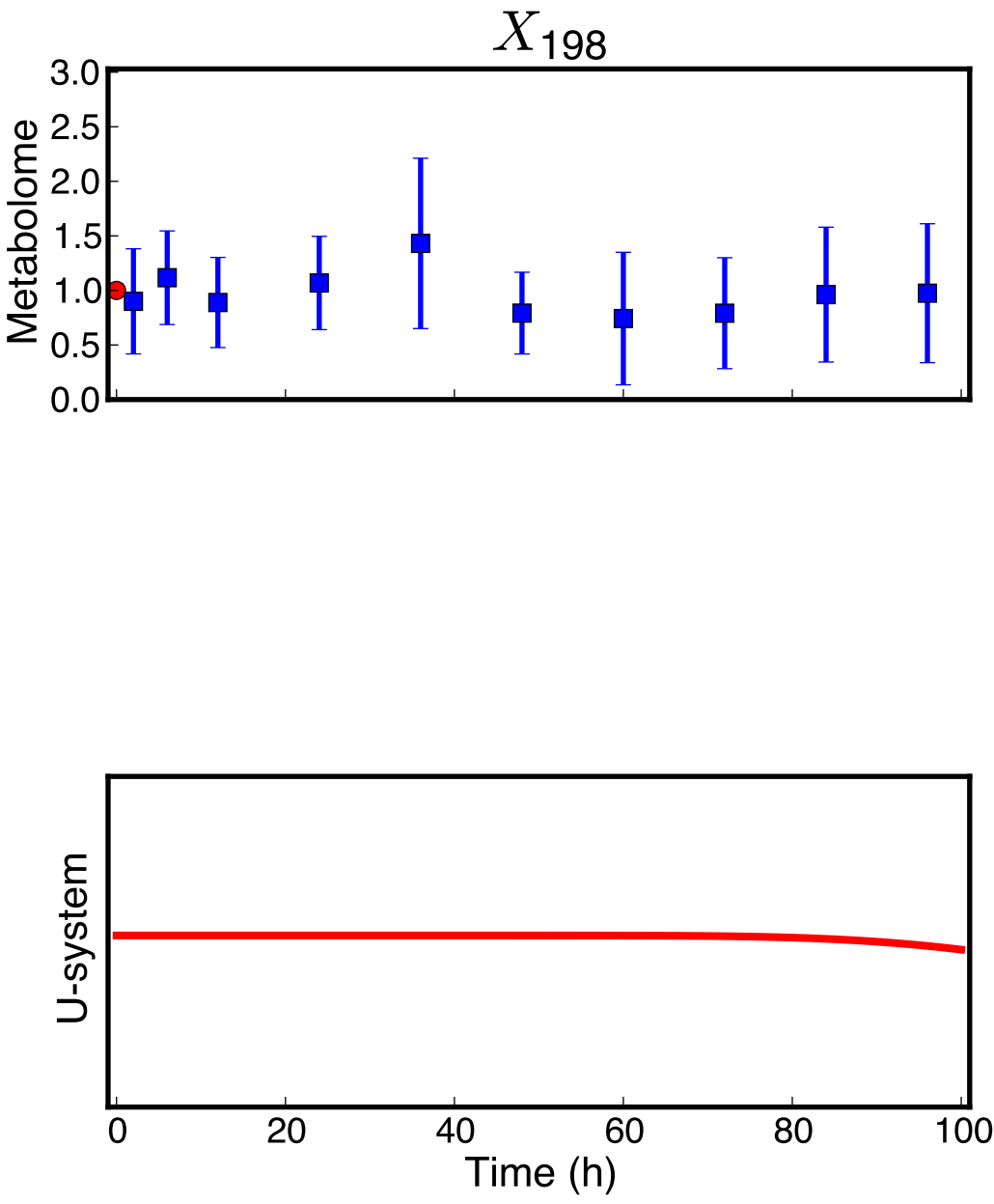
Time (h)


X_{198}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
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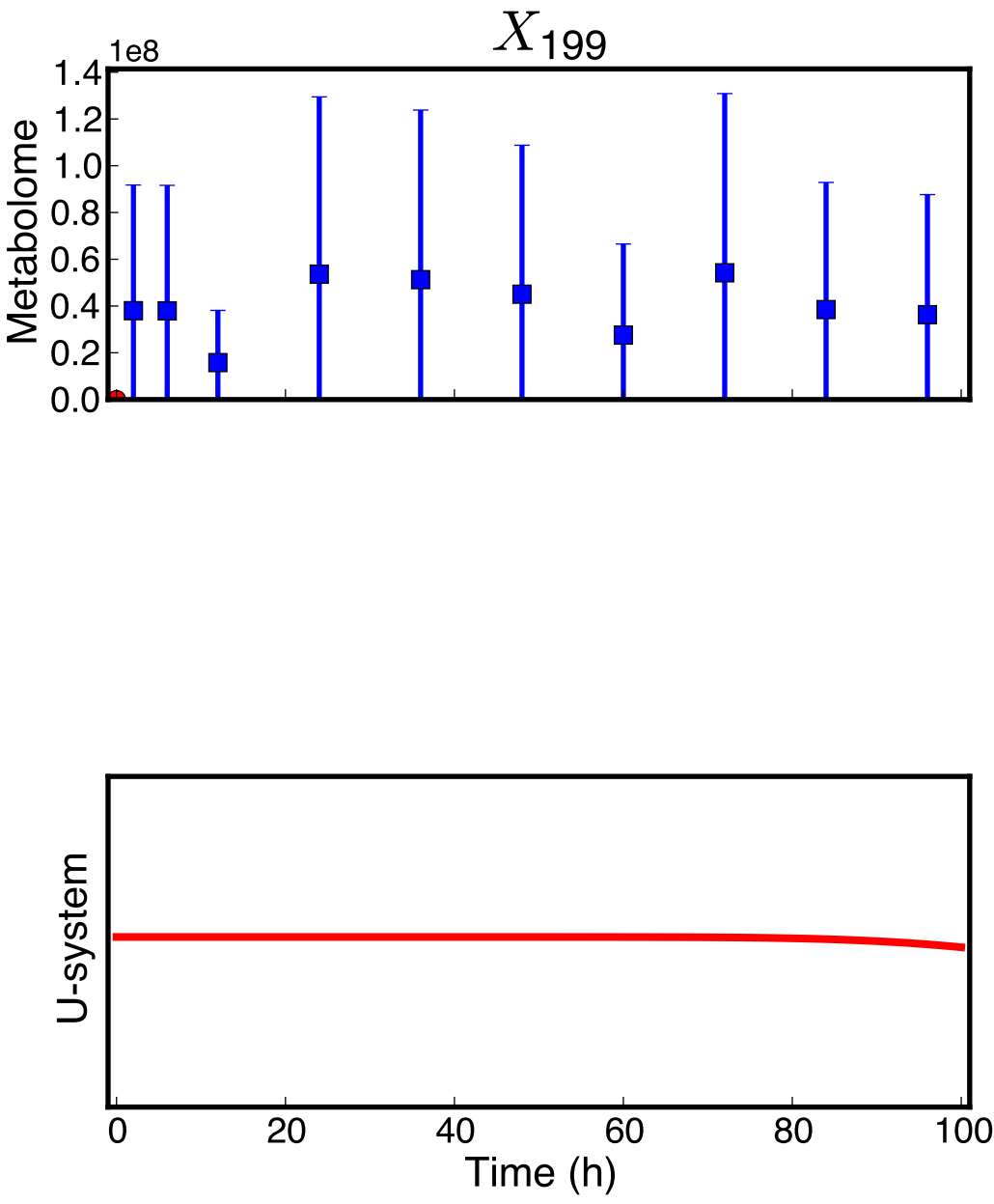
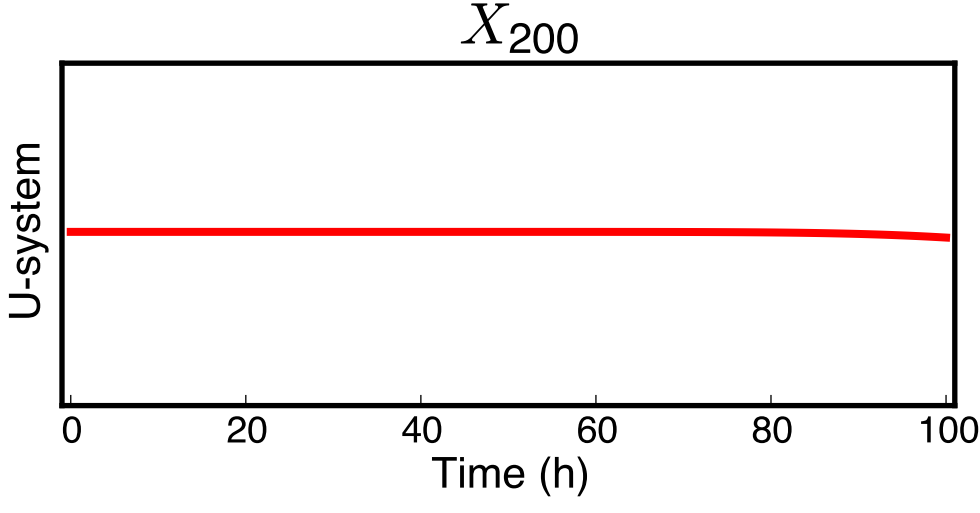
40
60
80
100
Time (h)


X_{199}
1e8
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Metabolome
U-system
0
20
40
60
80
100
Time (h)


X_{200}
U-system
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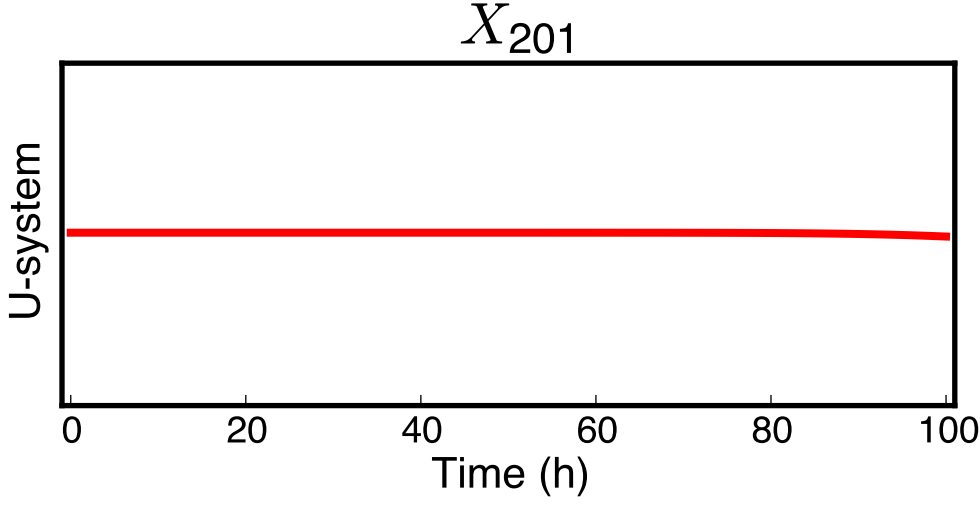
100
Time (h)


X_{201}
U-system
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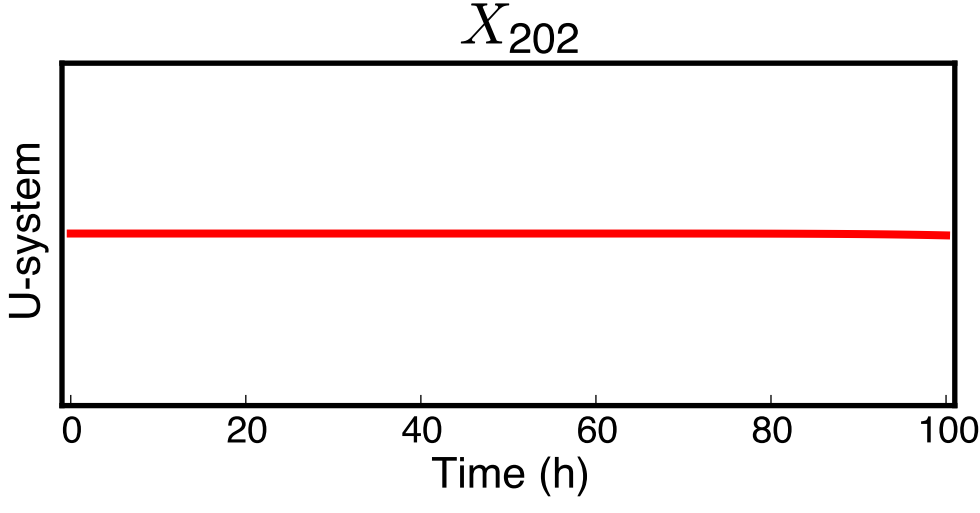
100
Time (h)


X_{202}
U-system
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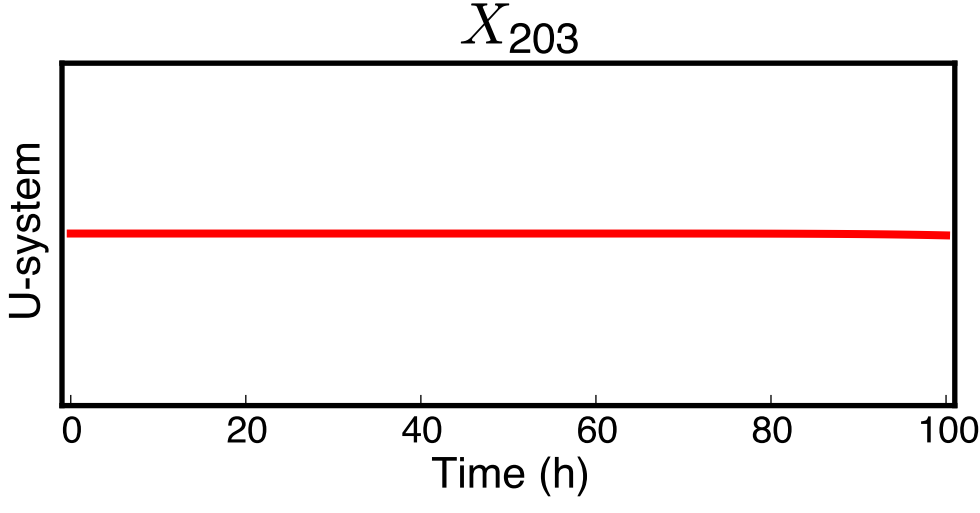
100
Time (h)


X_{203}
U-system
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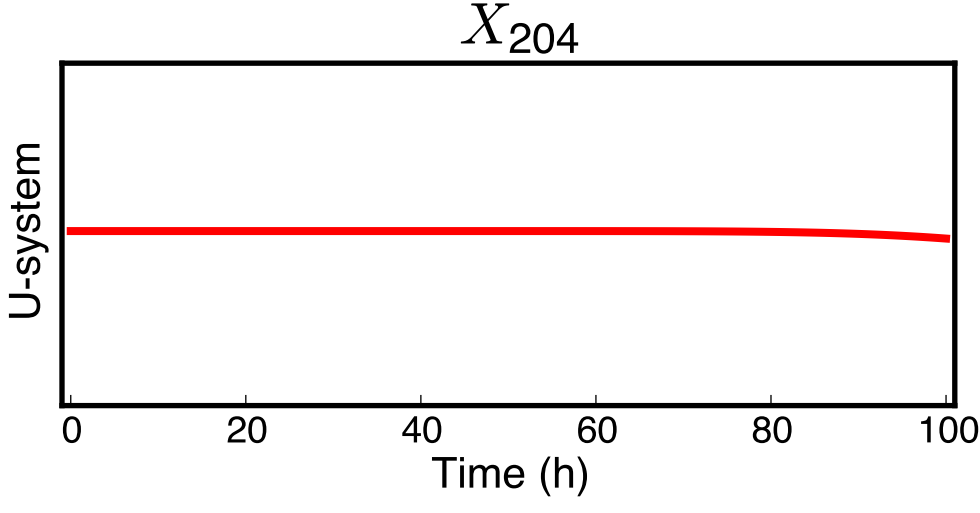
100
Time (h)


X_{204}
U-system
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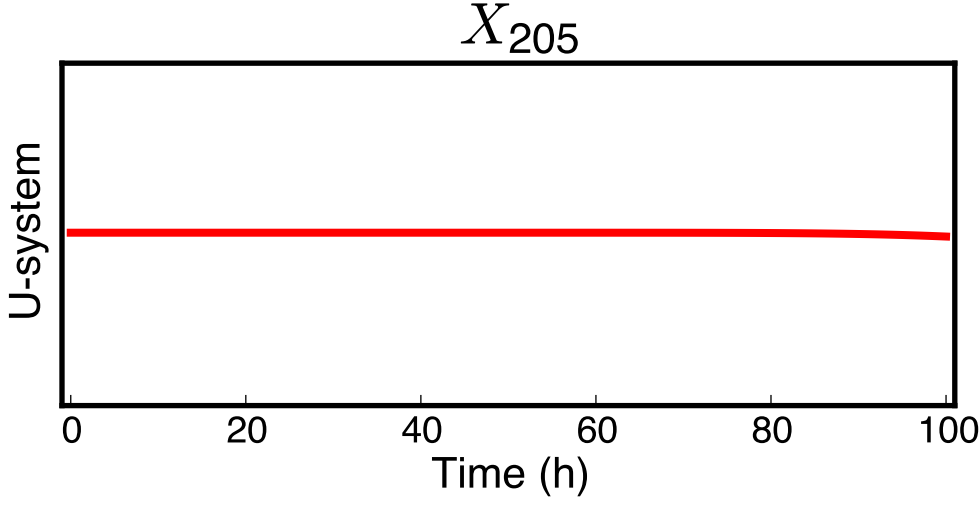
100
Time (h)


X_{205}
U-system
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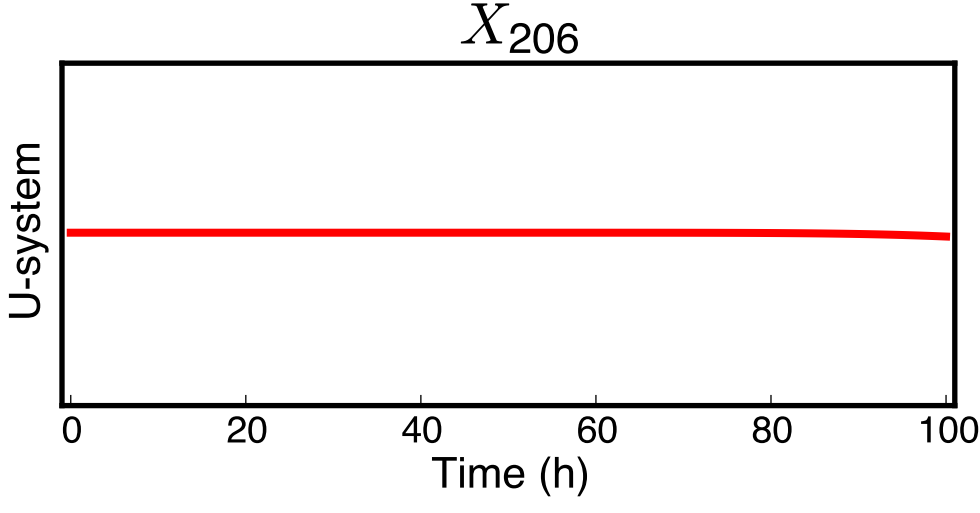
Time (h)


X_{206}
U-system
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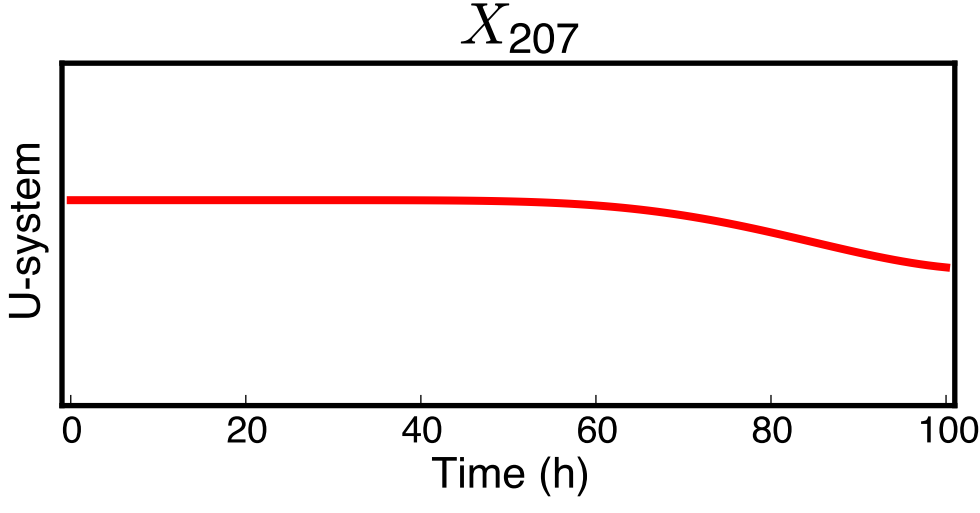
100
Time (h)


X_{207}
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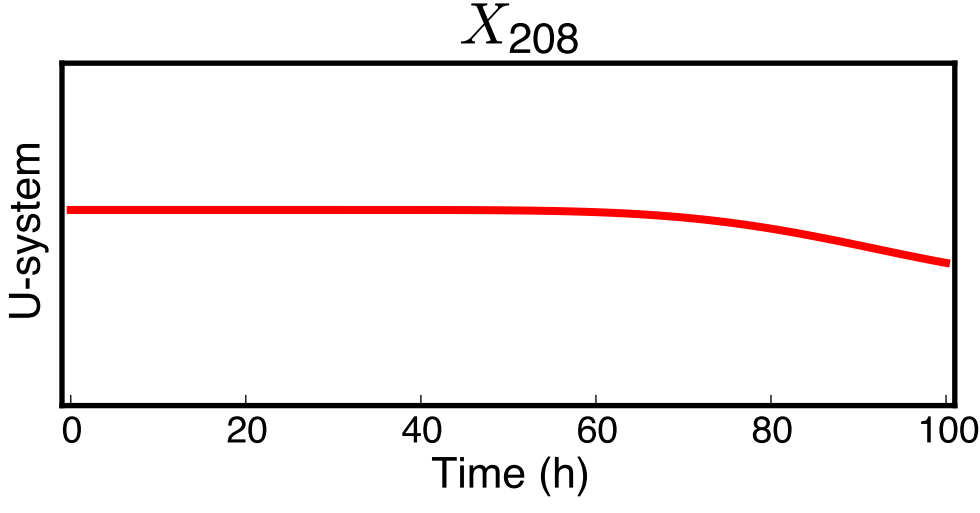
100
Time (h)


X_{208}
U-system
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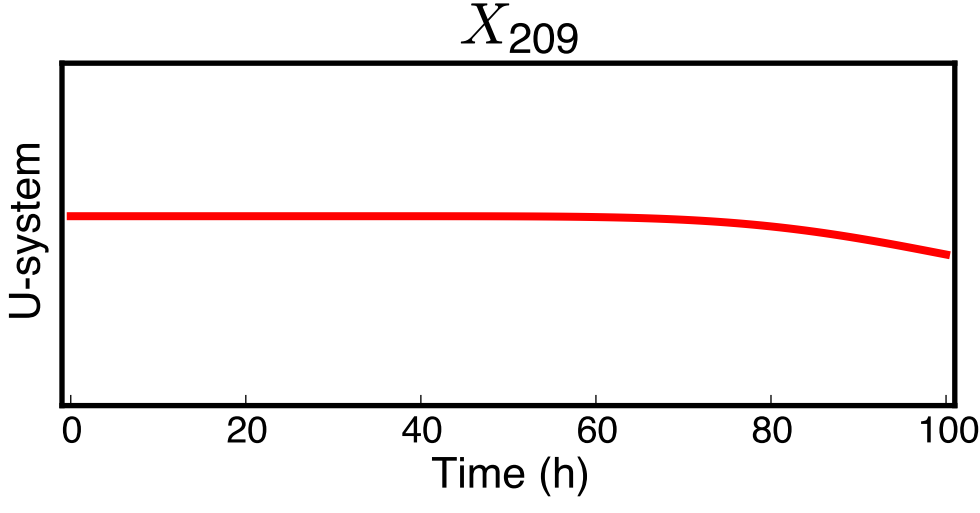
100
Time (h)


X_{209}
U-system
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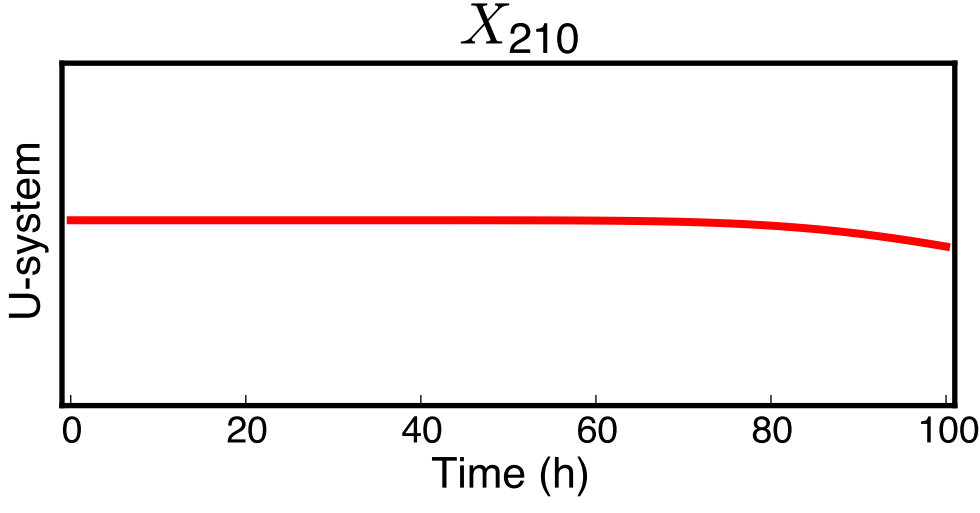
Time (h)


X_{210}
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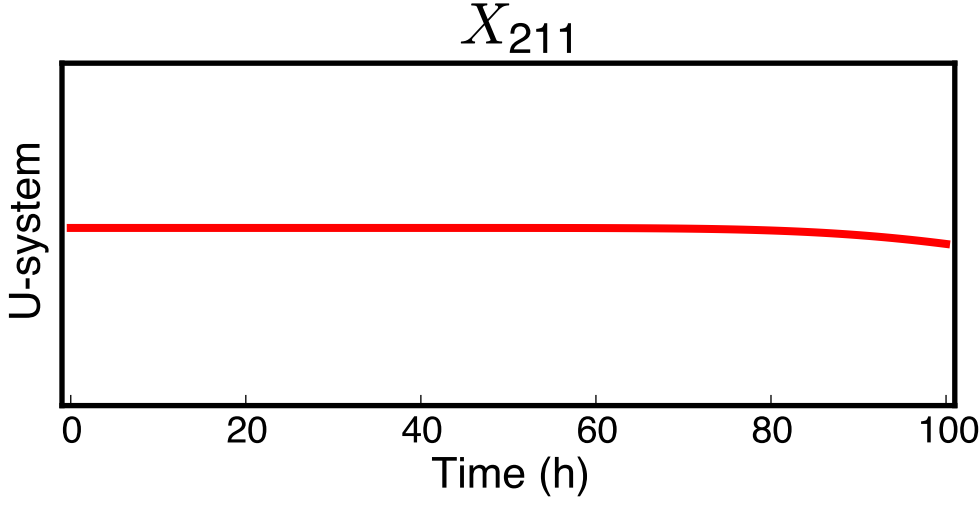
100
Time (h)


X_{211}
U-system
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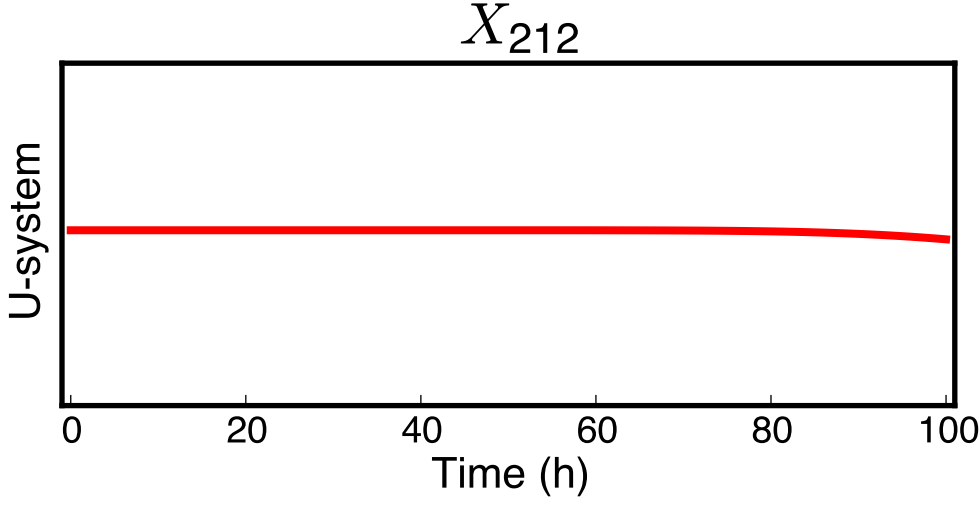
100
Time (h)


X_{212}
U-system
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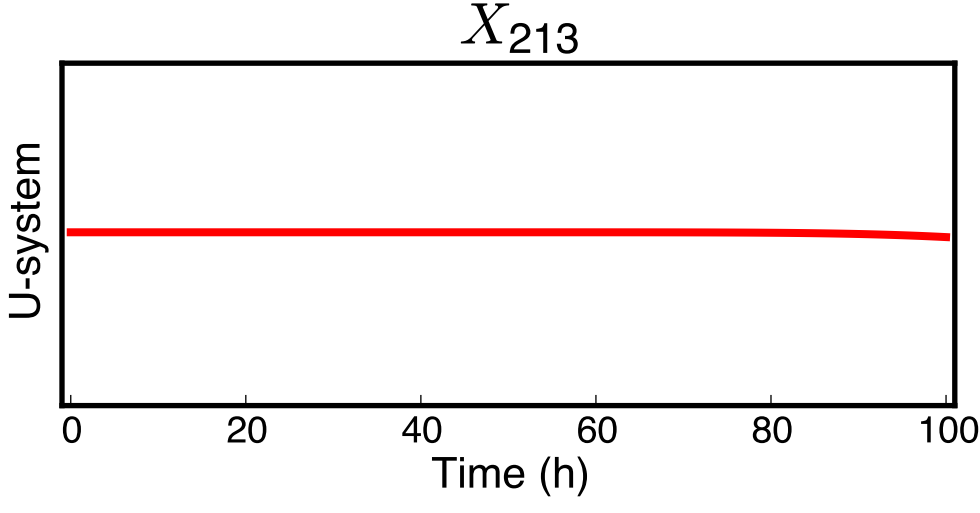
100
Time (h)


X_{213}
U-system
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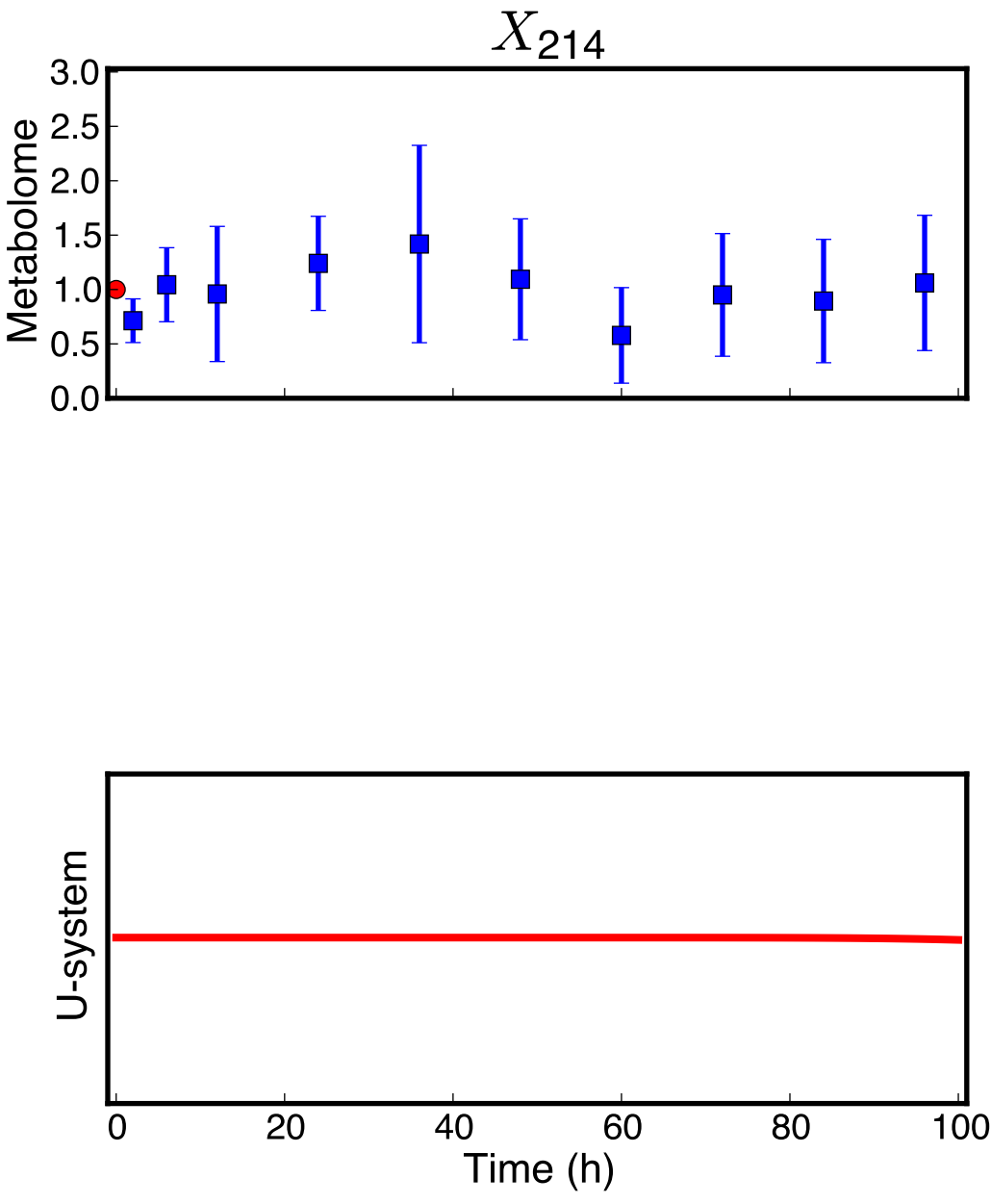
80
100
Time (h)


X_{214}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
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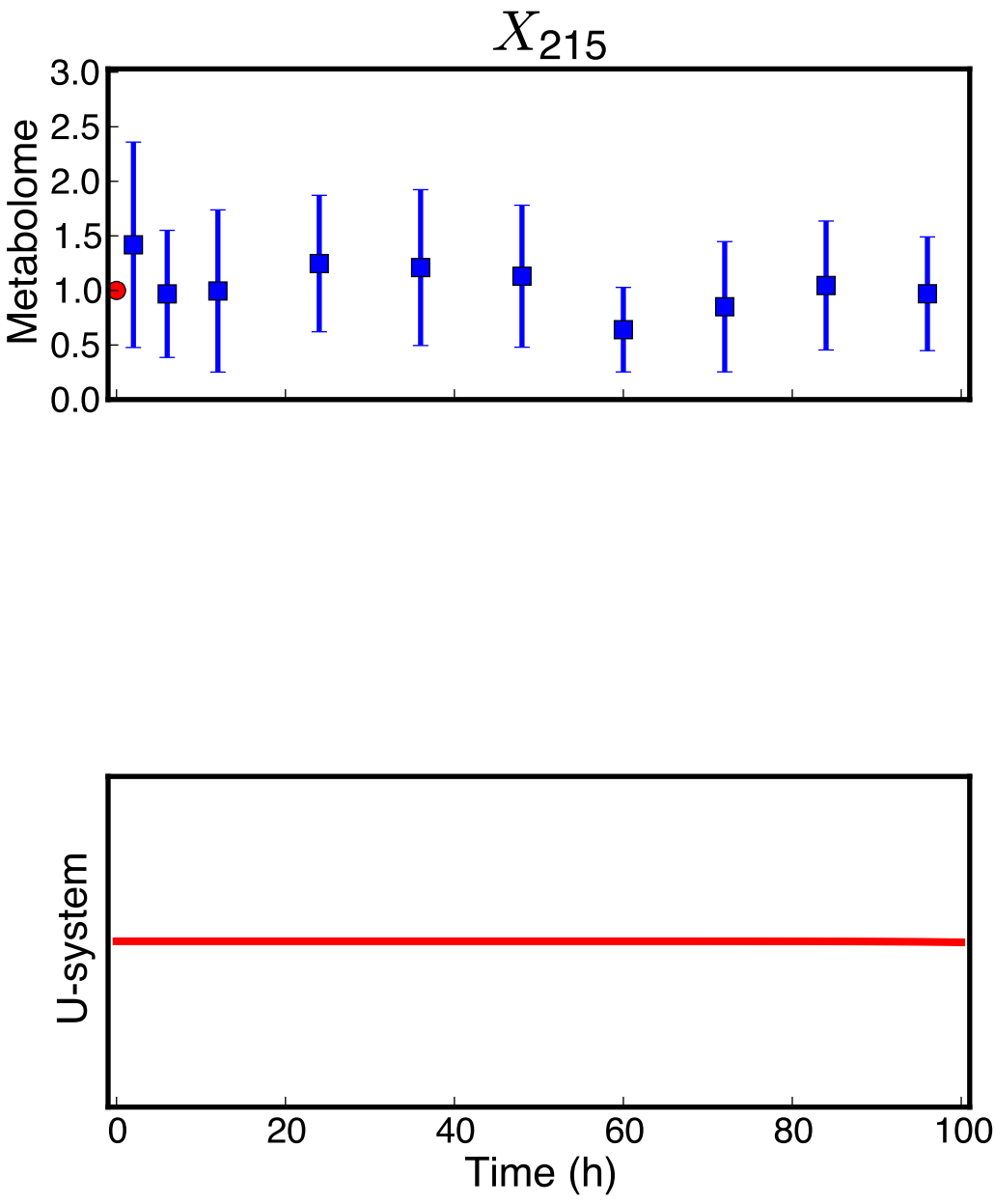
80
100
Time (h)


X_{215}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
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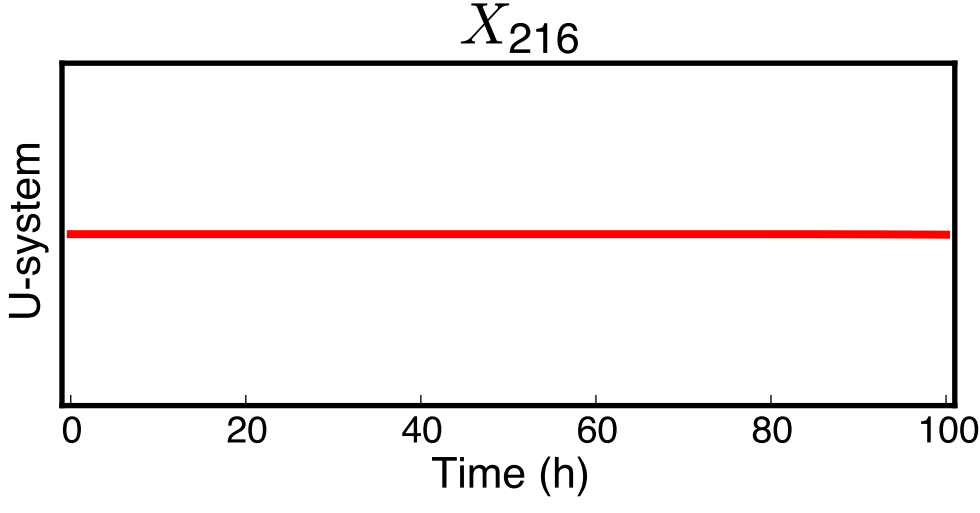
40
60
80
100
Time (h)


X_{216}
U-system
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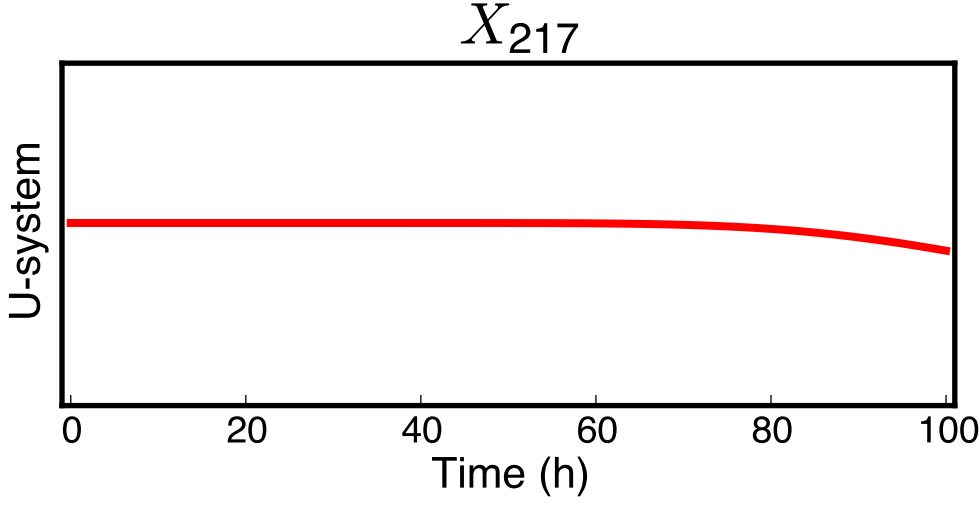
100
Time (h)


X_{217}
U-system
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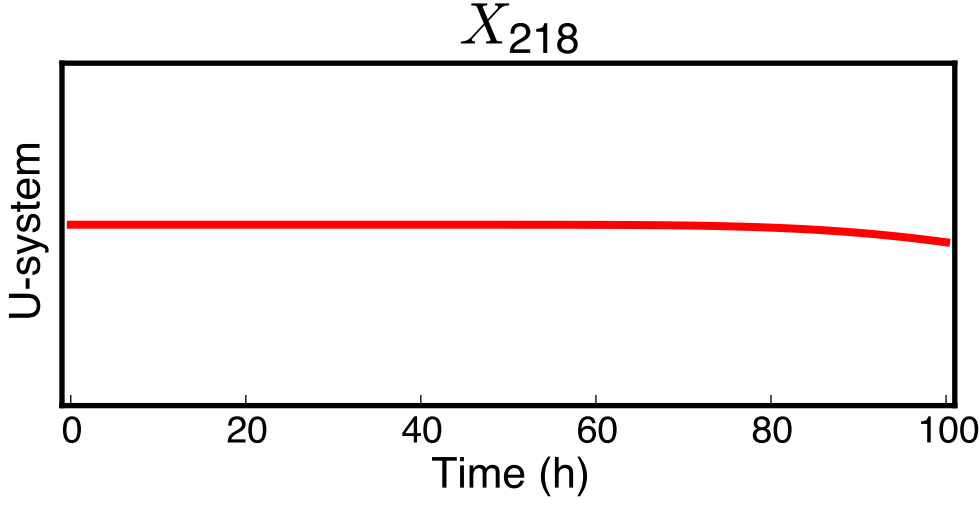
80
100
Time (h)


X_{218}
U-system
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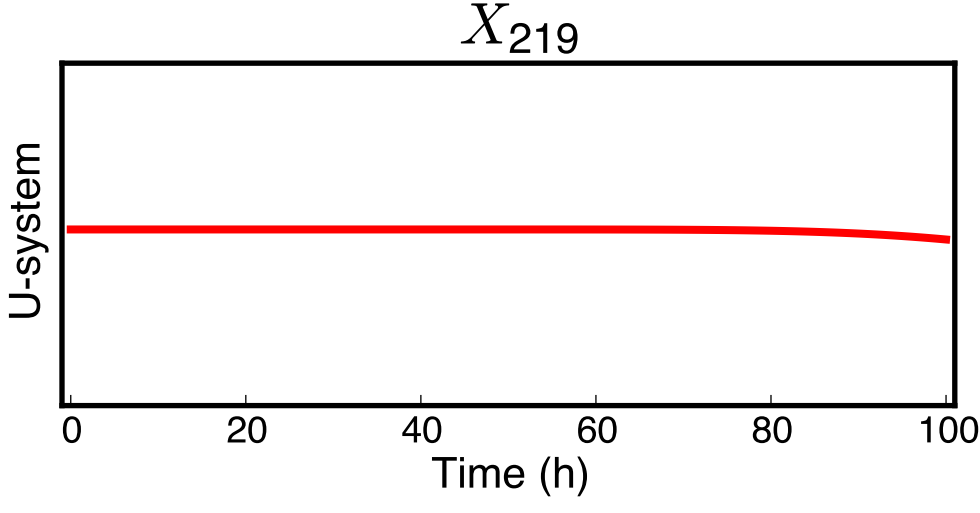
100
Time (h)


X_{219}
U-system
0
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40
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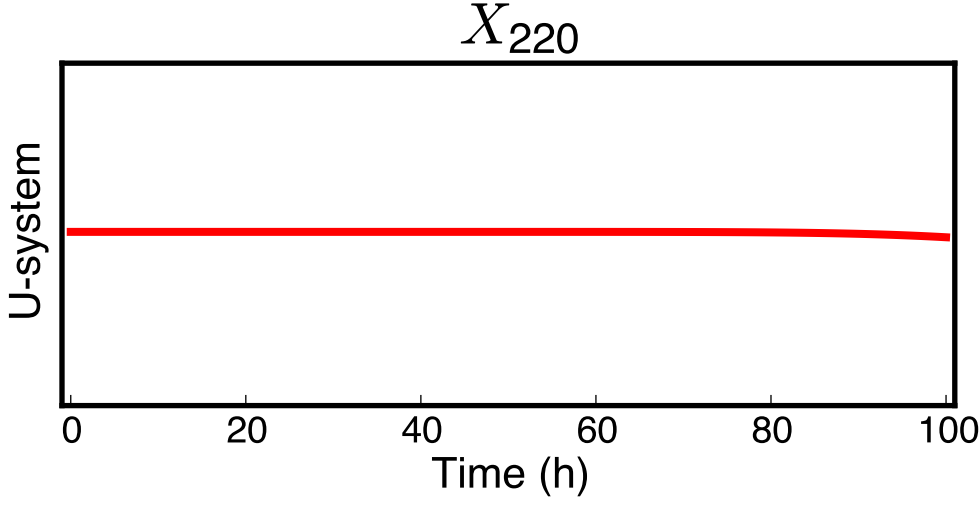
80
100
Time (h)


X_{220}
U-system
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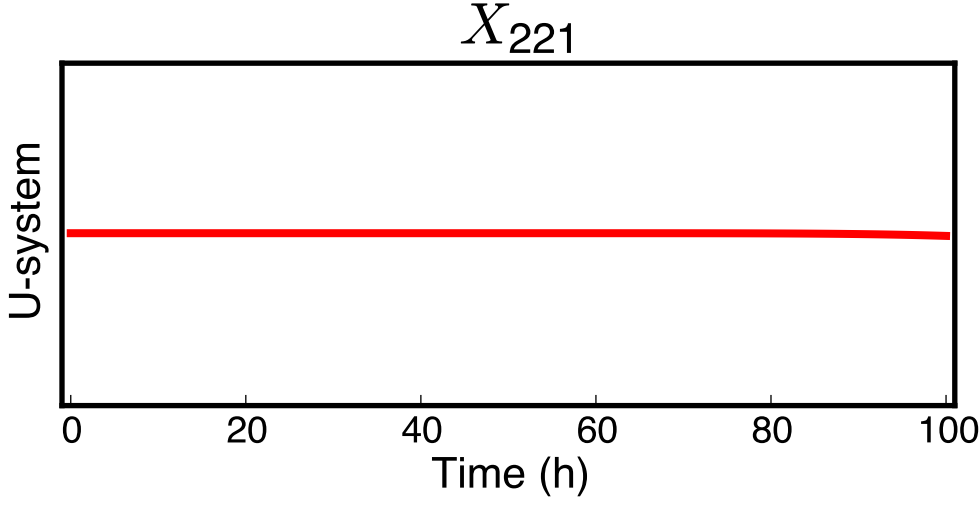
Time (h)


X_{221}
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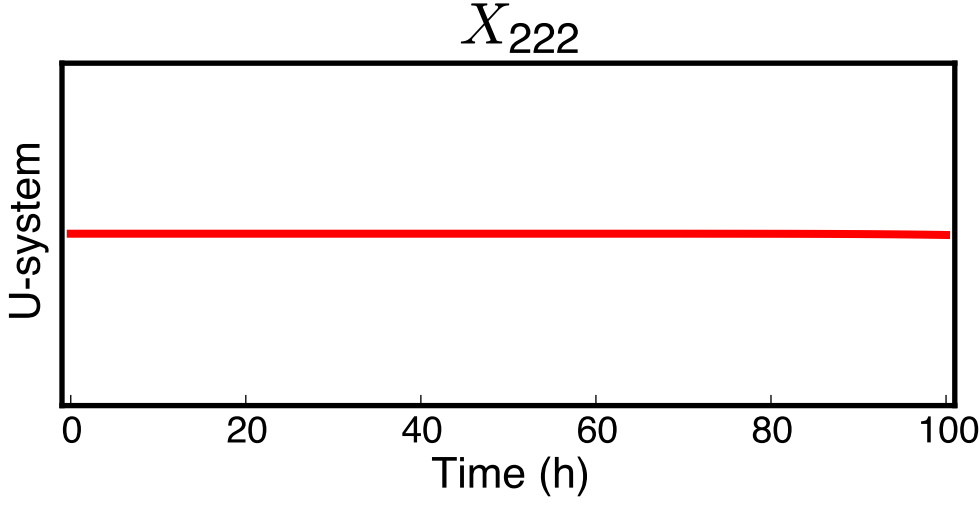
Time (h)


X_{222}
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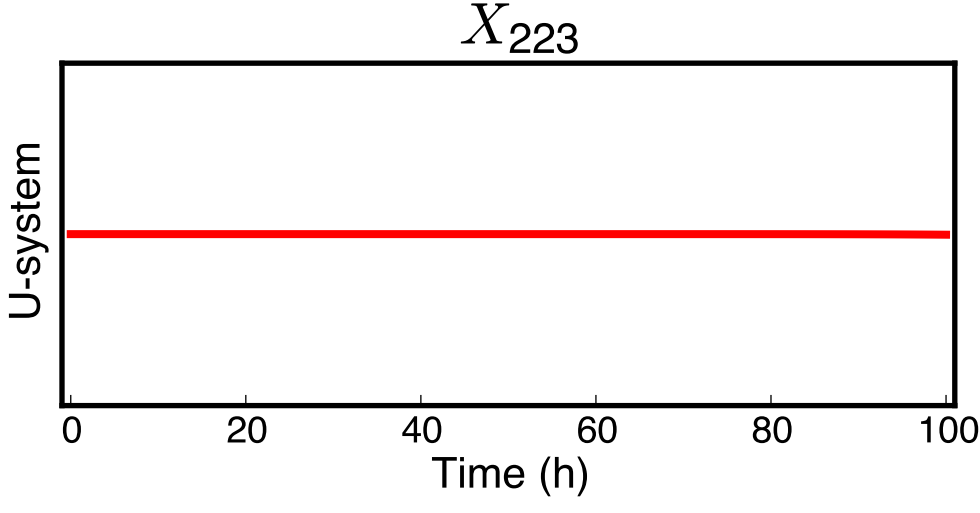
Time (h)


X_{223}
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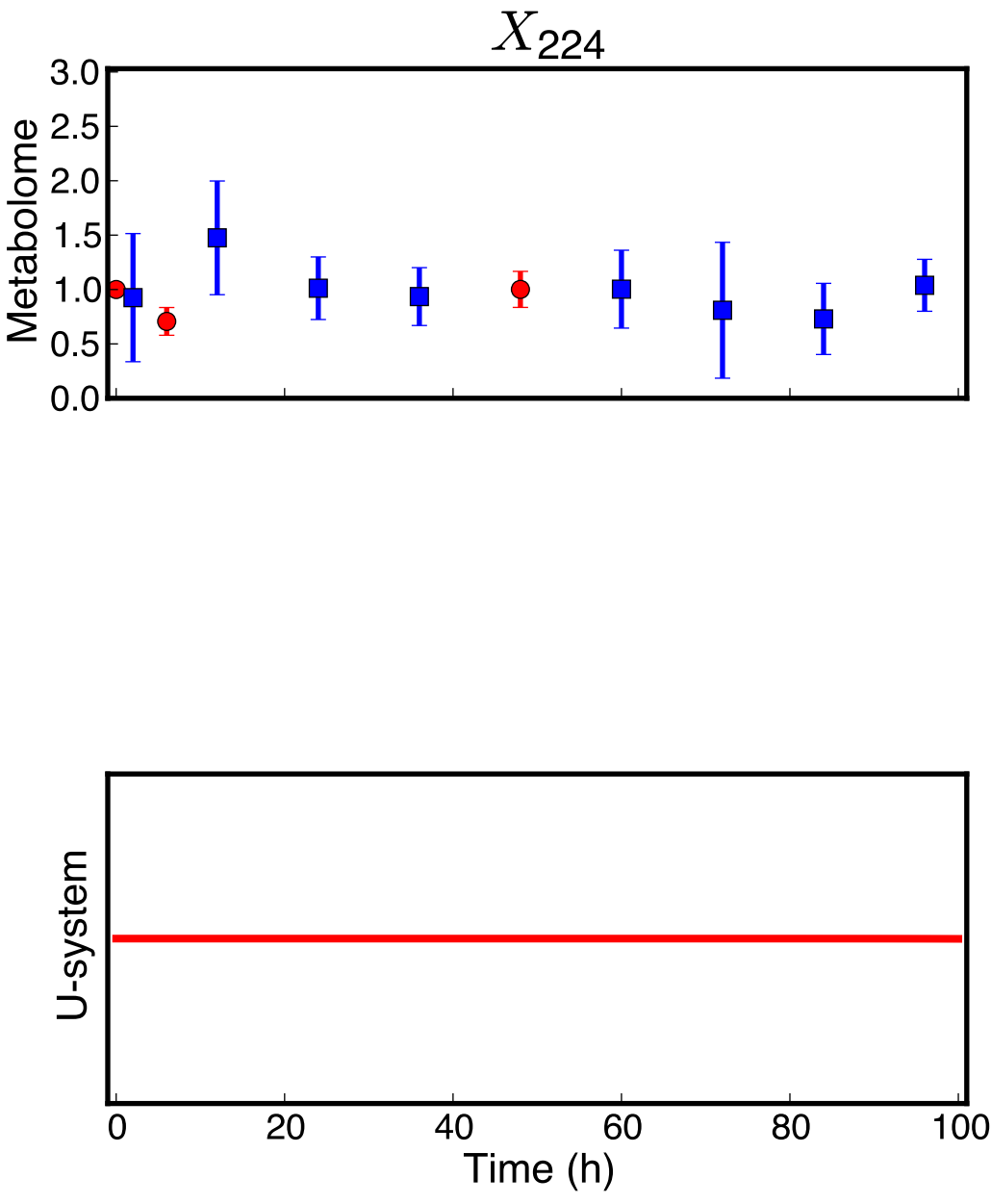
Time (h)


X_{224}
Metabolome
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1.0
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U-system
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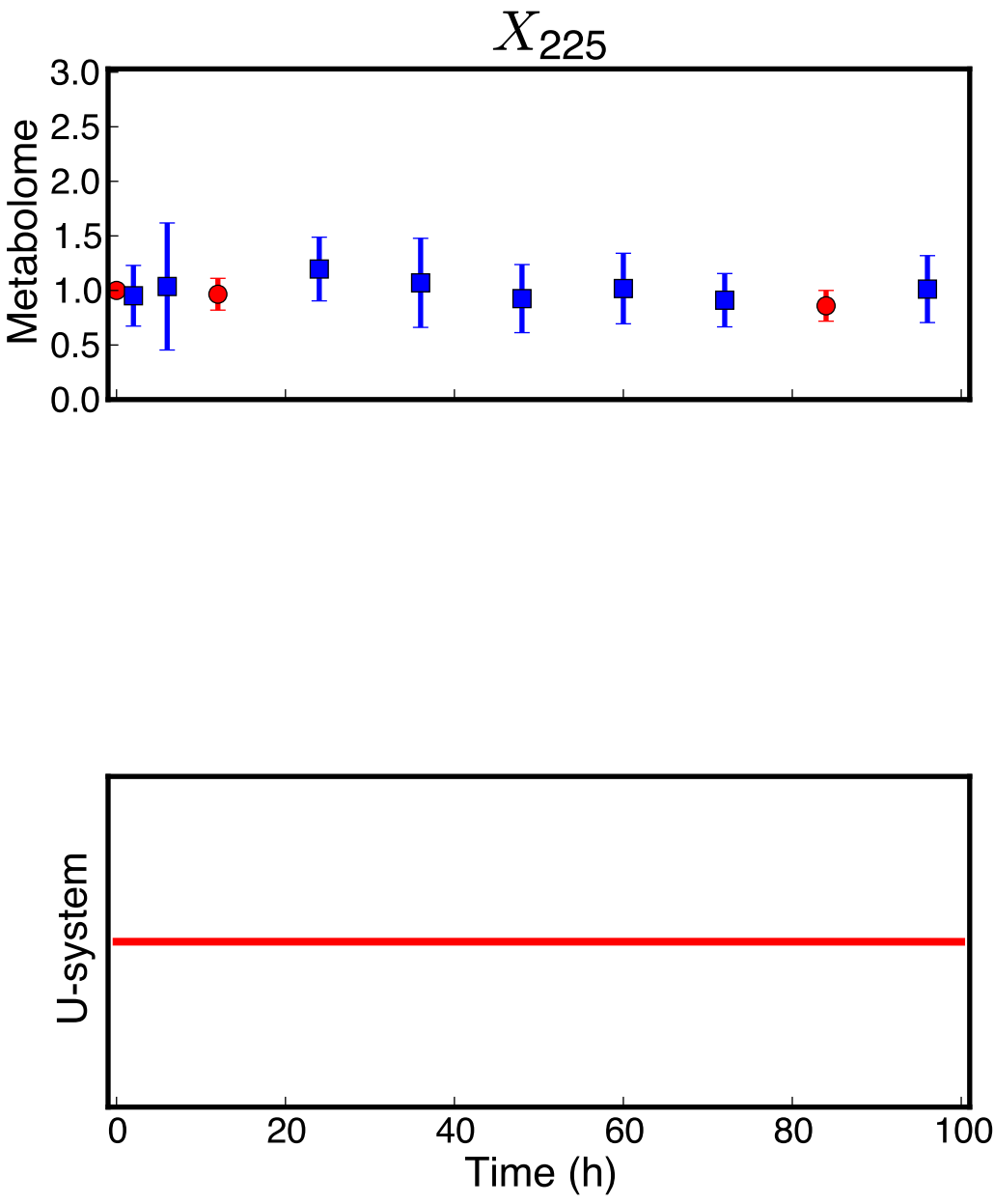
80
100
Time (h)


X_{225}
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1.5
1.0
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U-system
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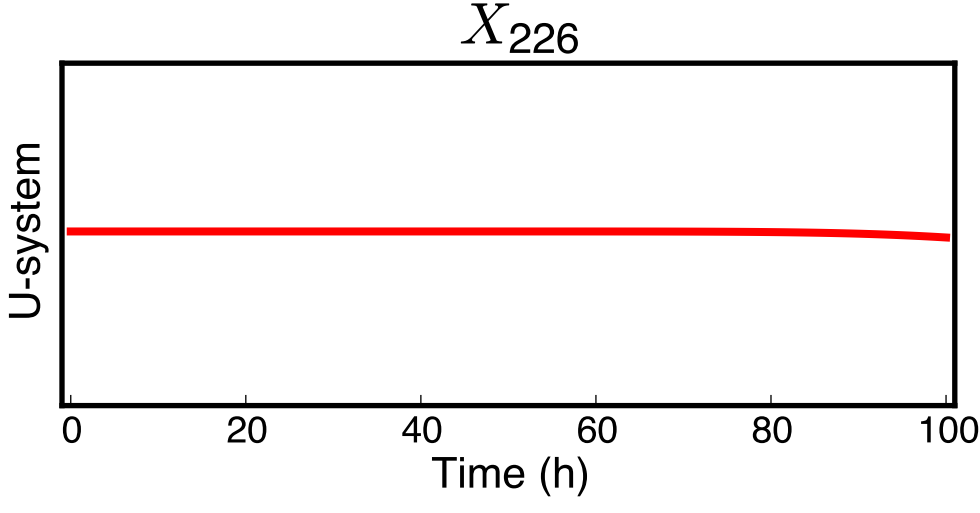
Time (h)


X_{226}
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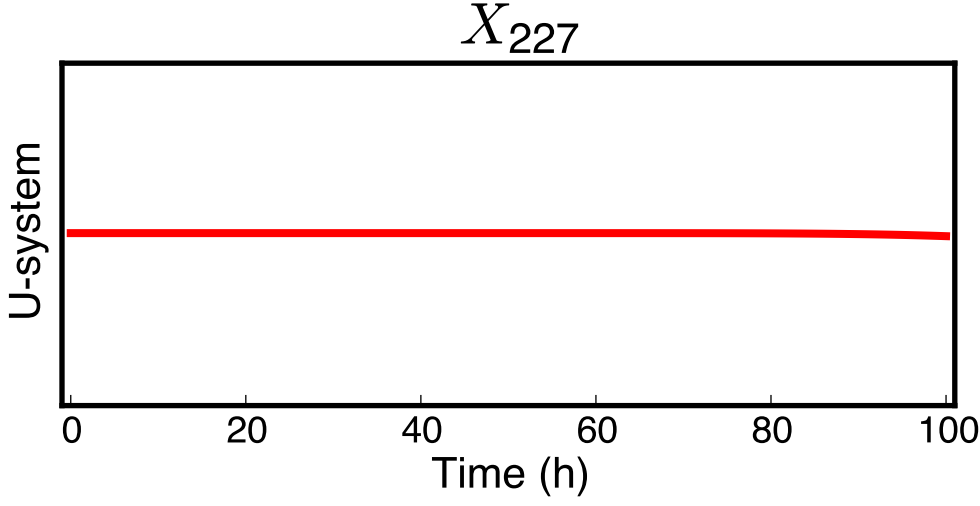
Time (h)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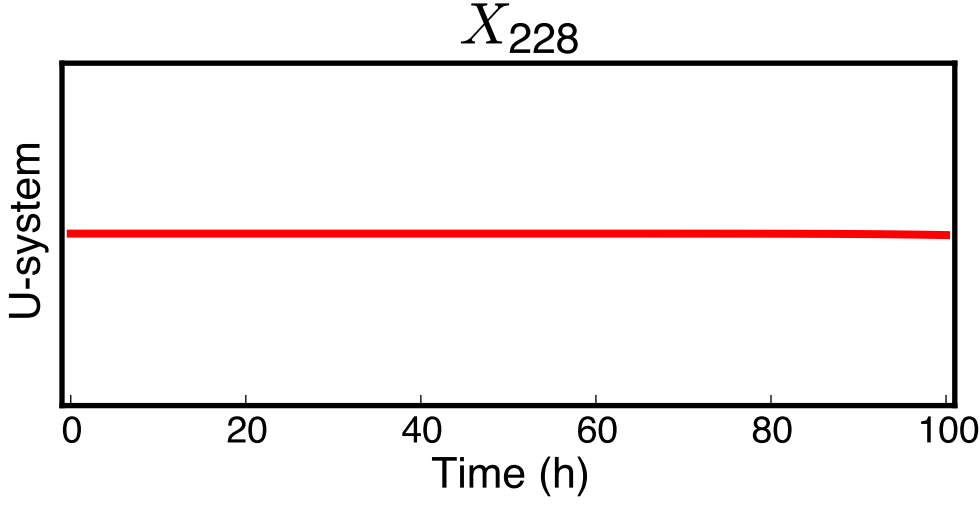
Time (h)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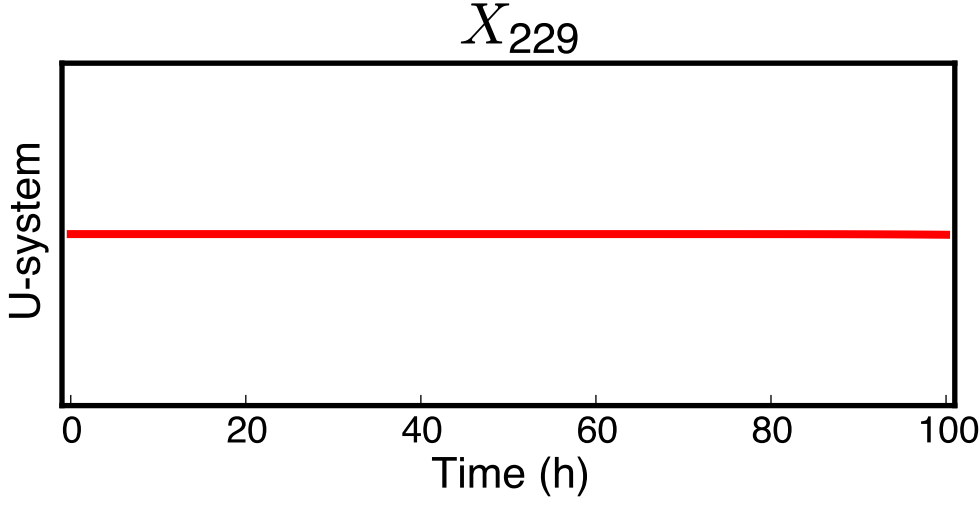
Time (h)


X_{229}
U-system
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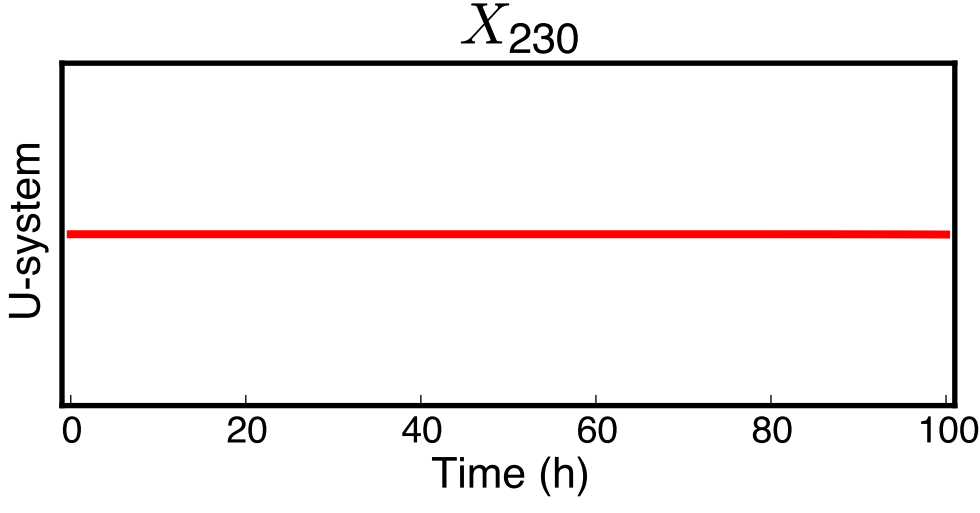
Time (h)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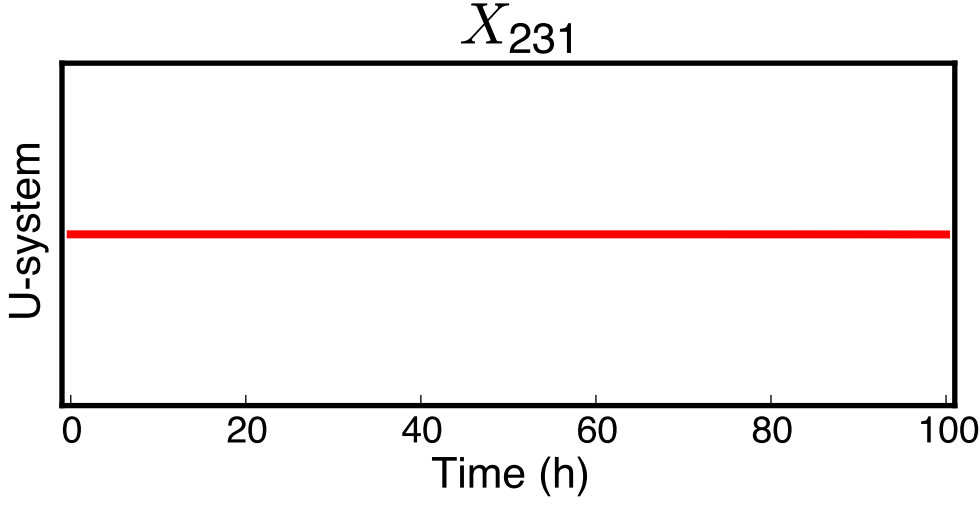
Time (h)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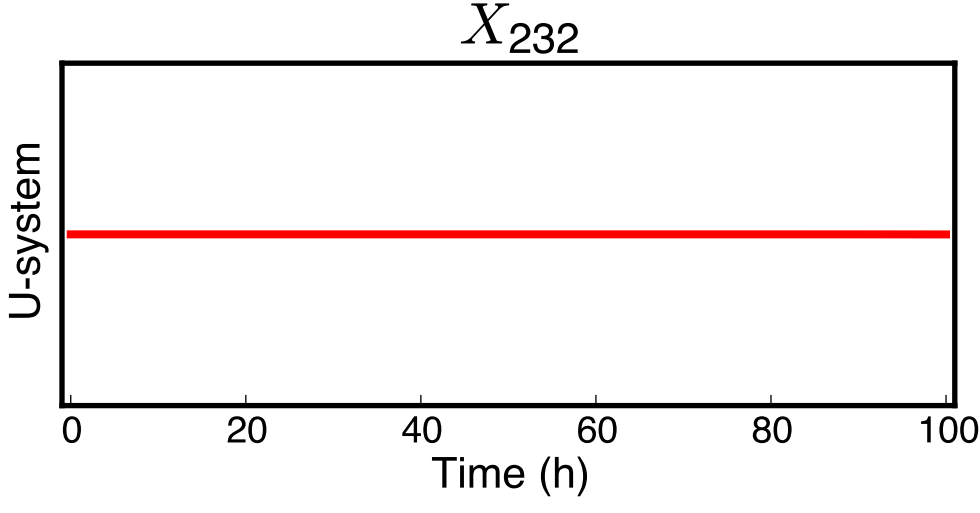
Time (h)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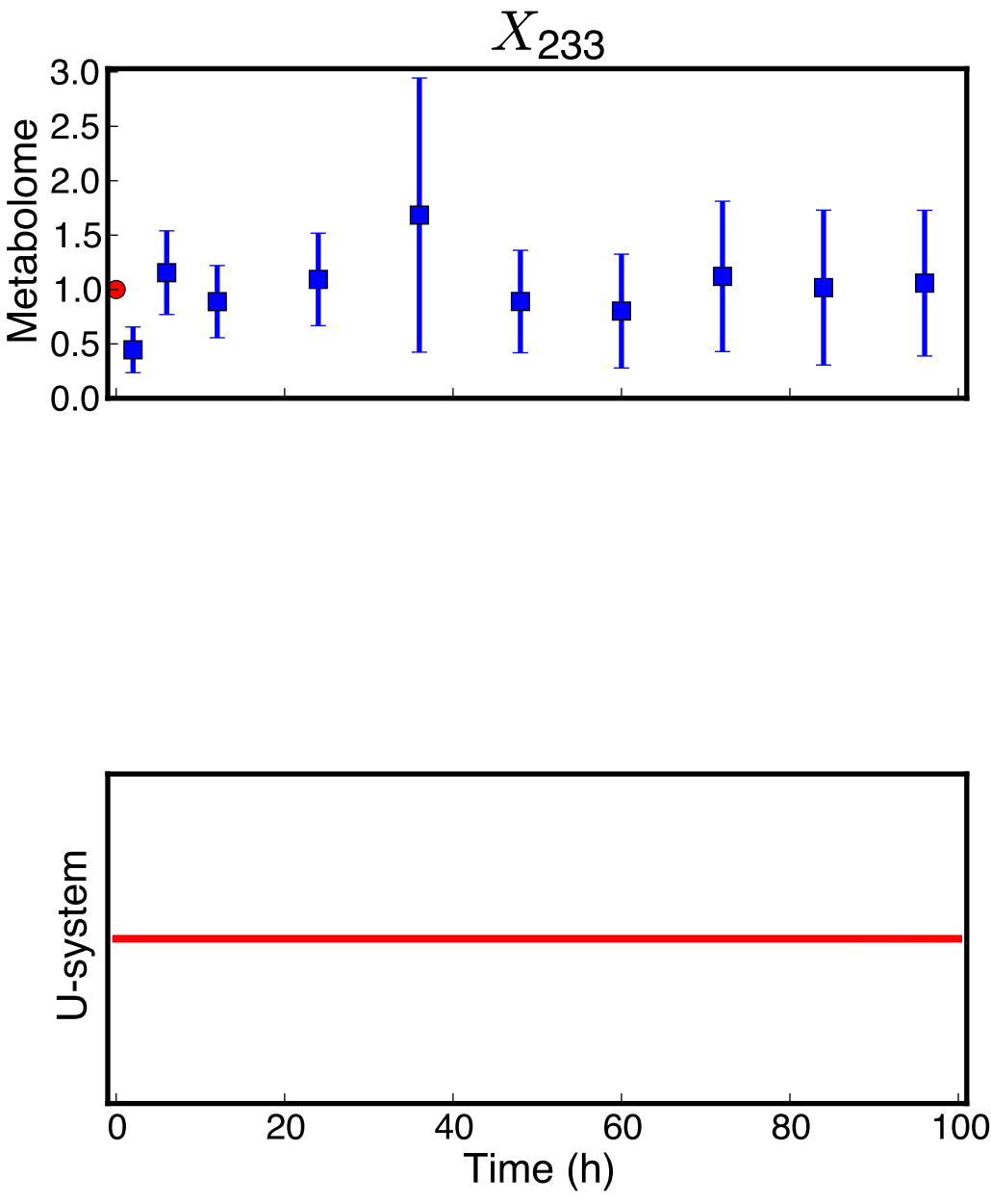
Time (h)


X_{233}
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U-system
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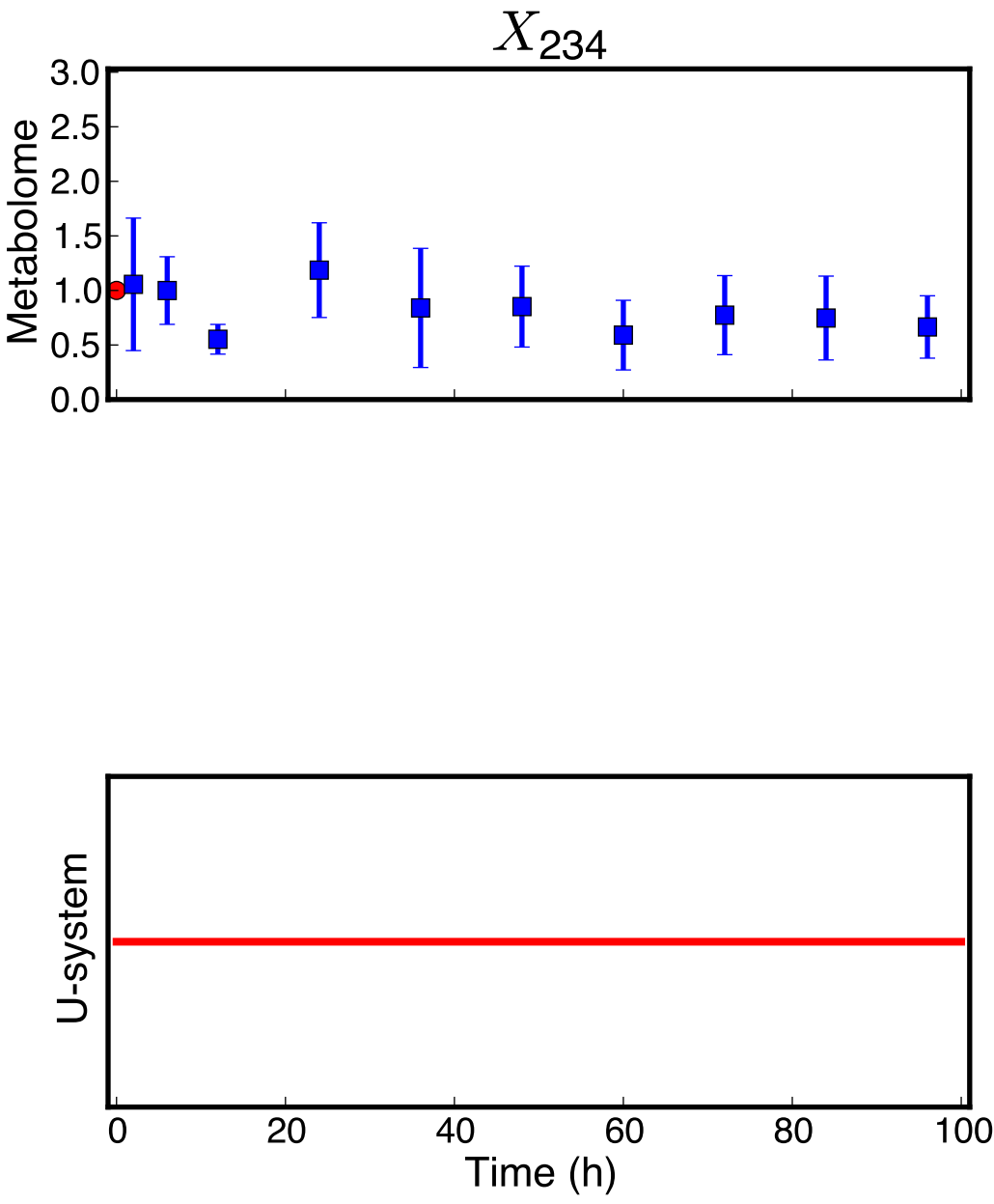
Time (h)


X_{234}
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U-system
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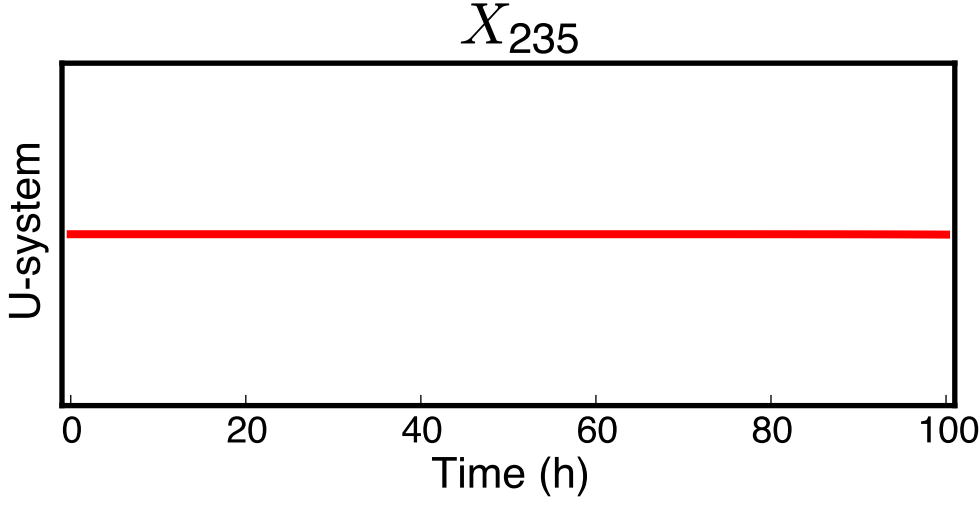
Time (h)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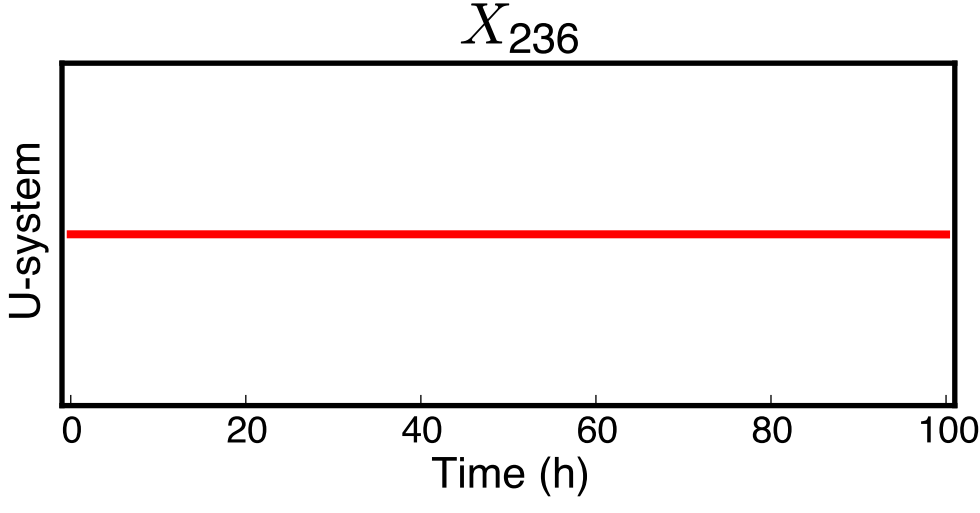
Time (h)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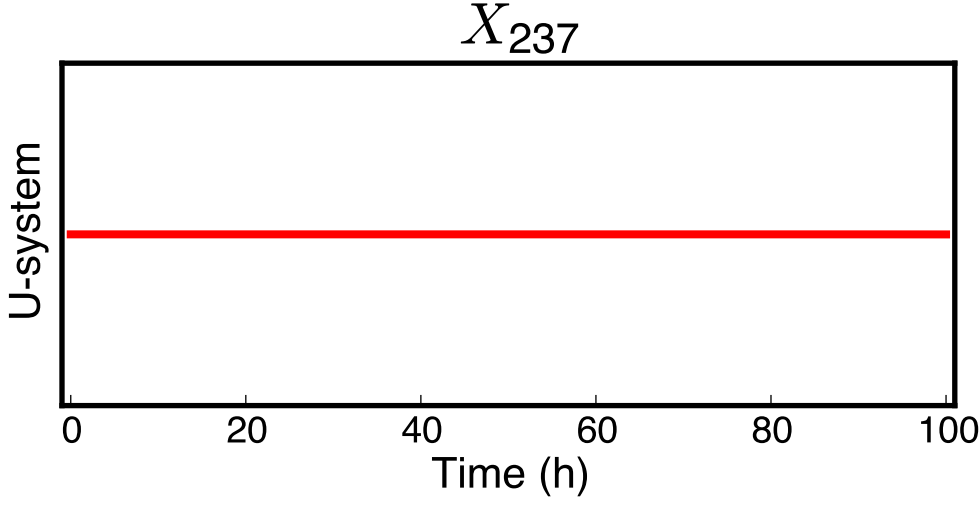
Time (h)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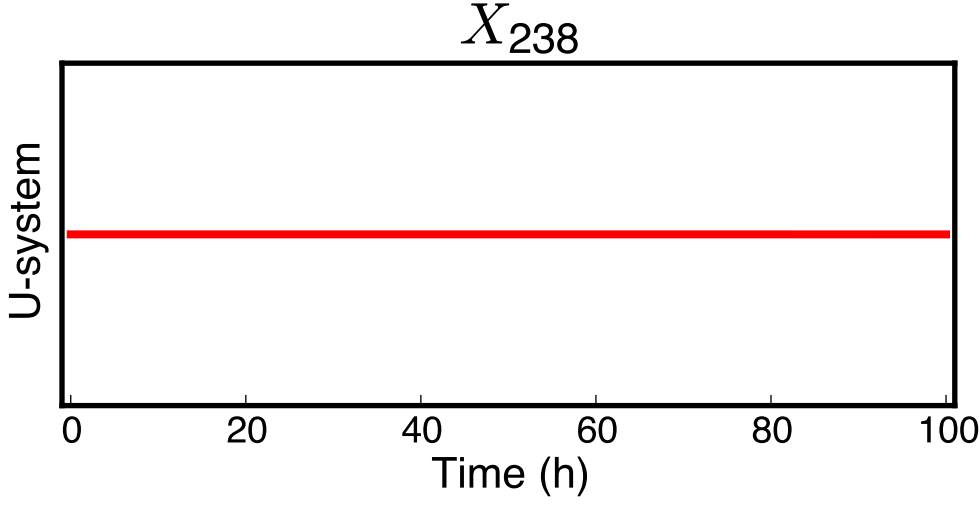
Time (h)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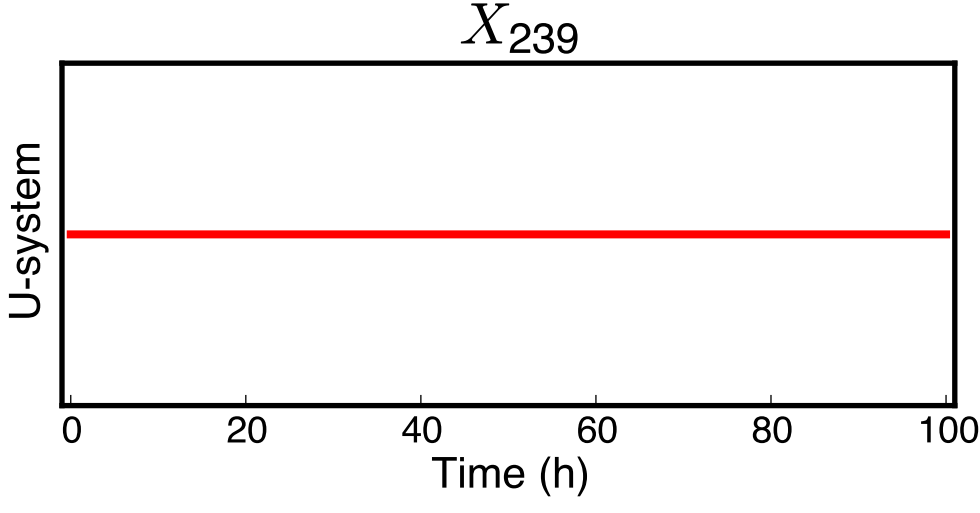
Time (h)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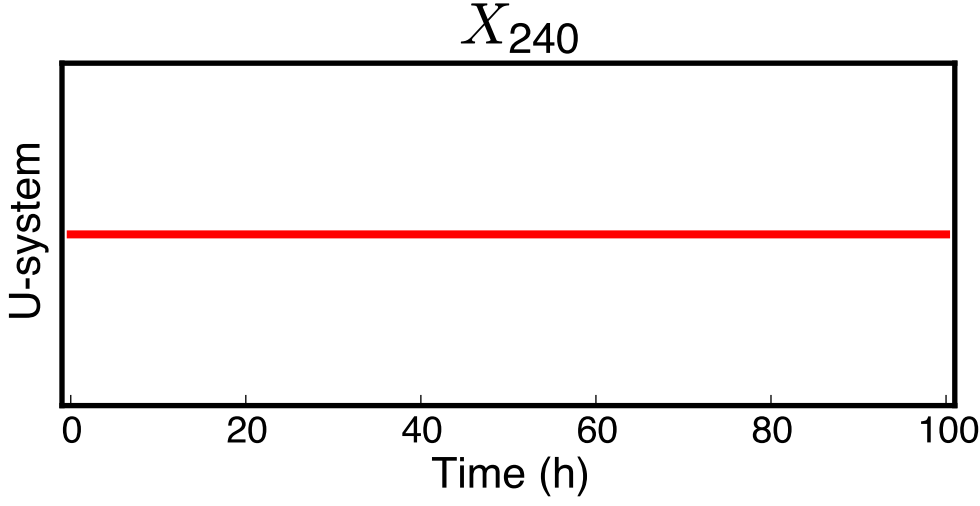
Time (h)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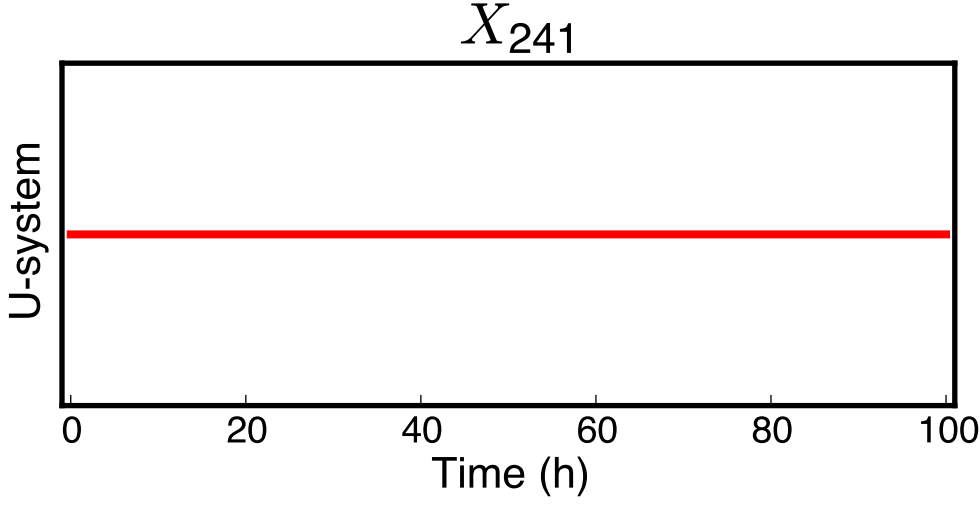
Time (h)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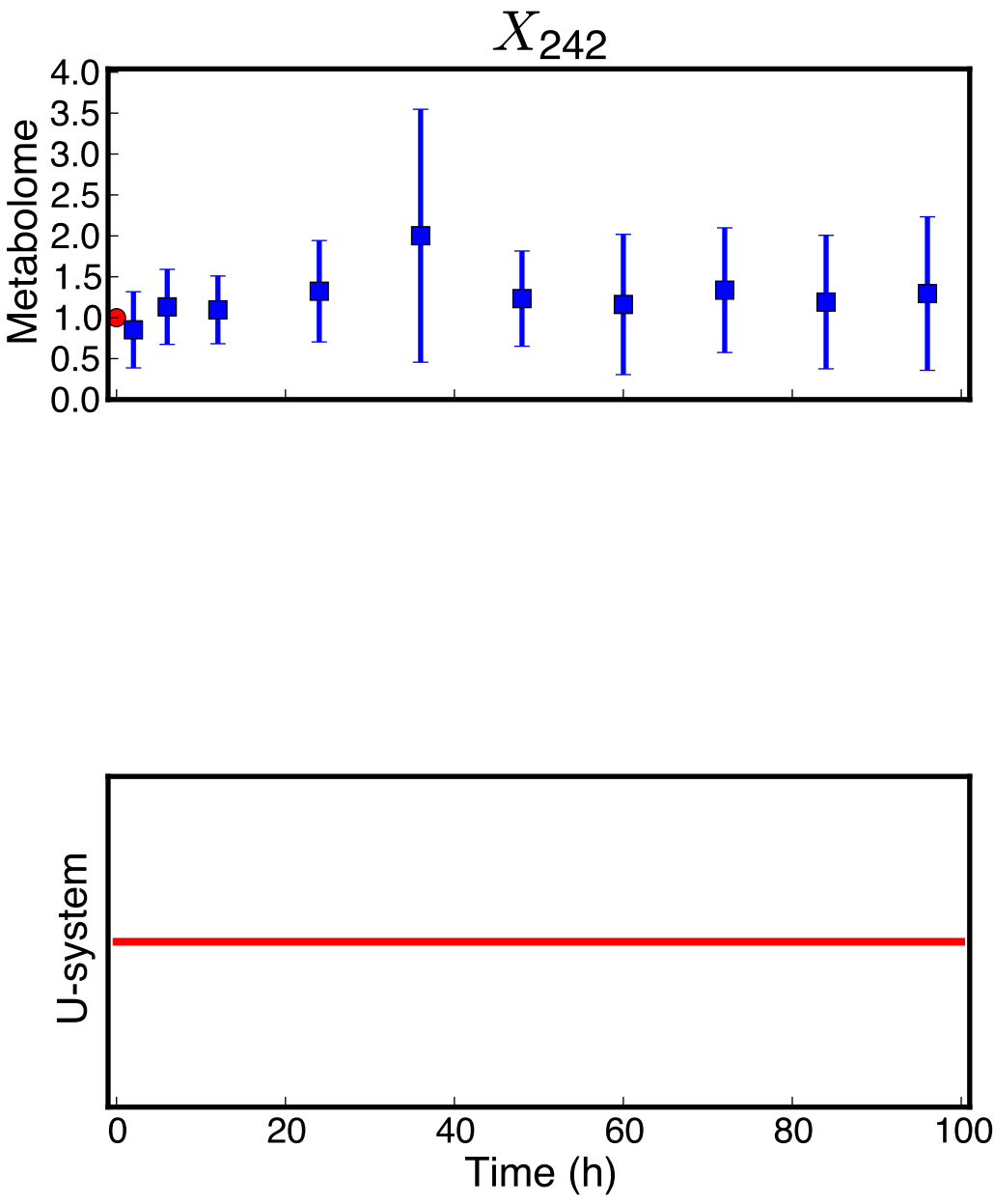
Time (h)


X_{242}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
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U-system
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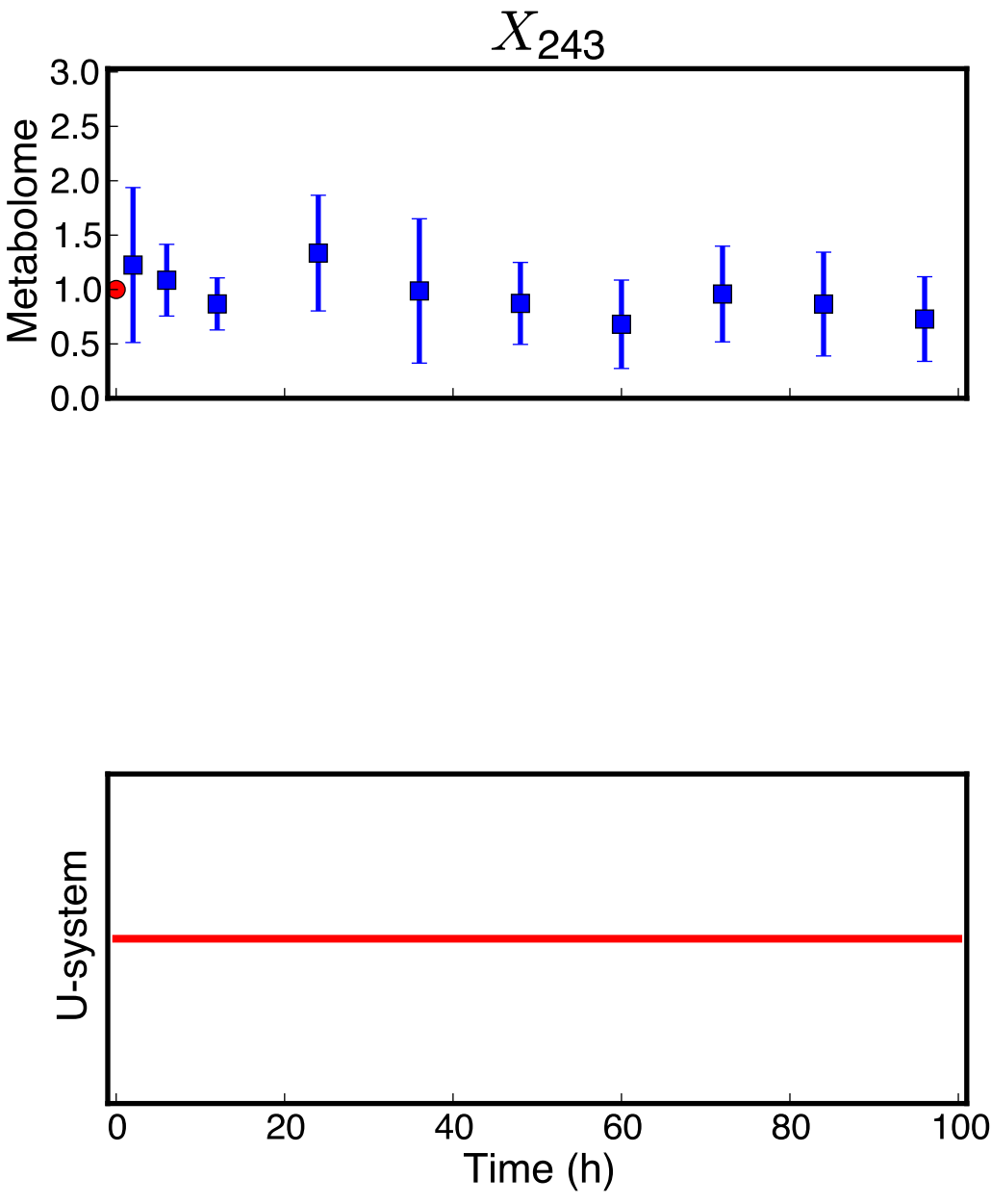
100
Time (h)


X_{243}
Metabolome
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1.5
1.0
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U-system
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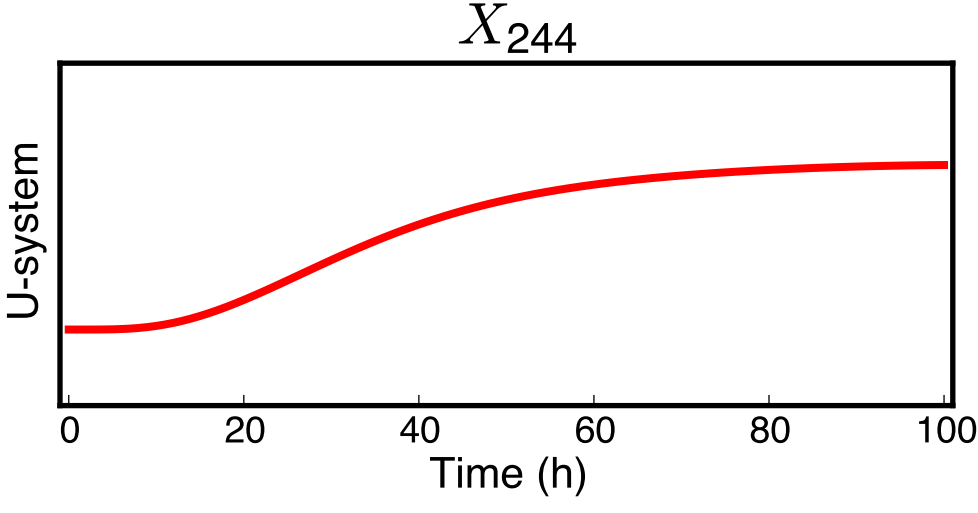
Time (h)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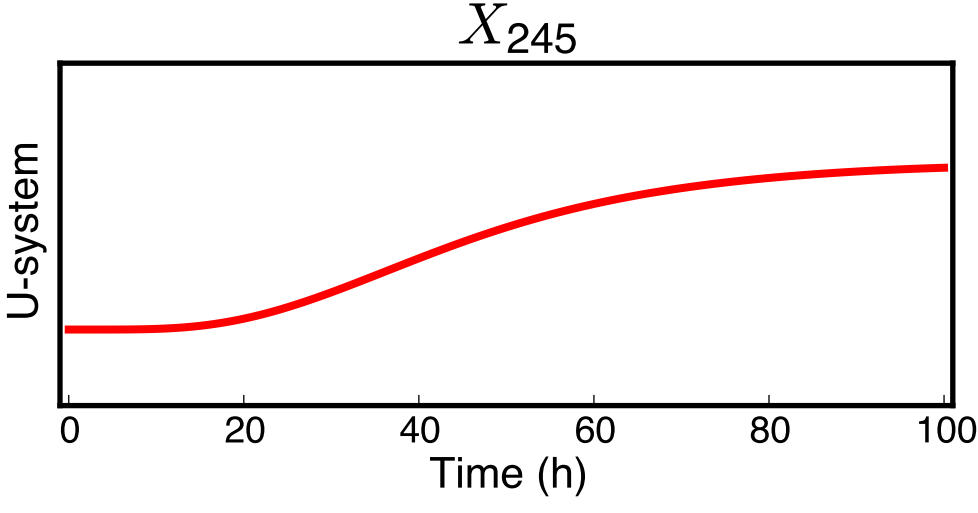
Time (h)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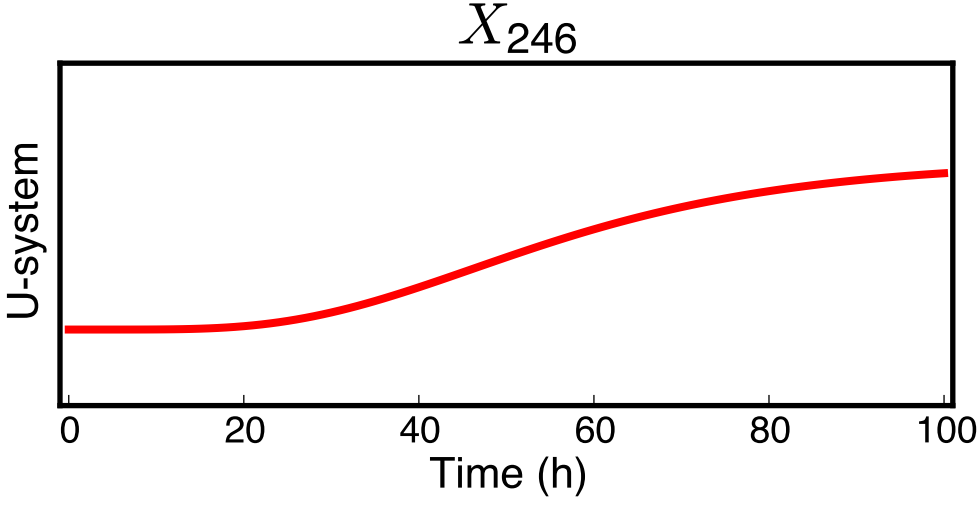
Time (h)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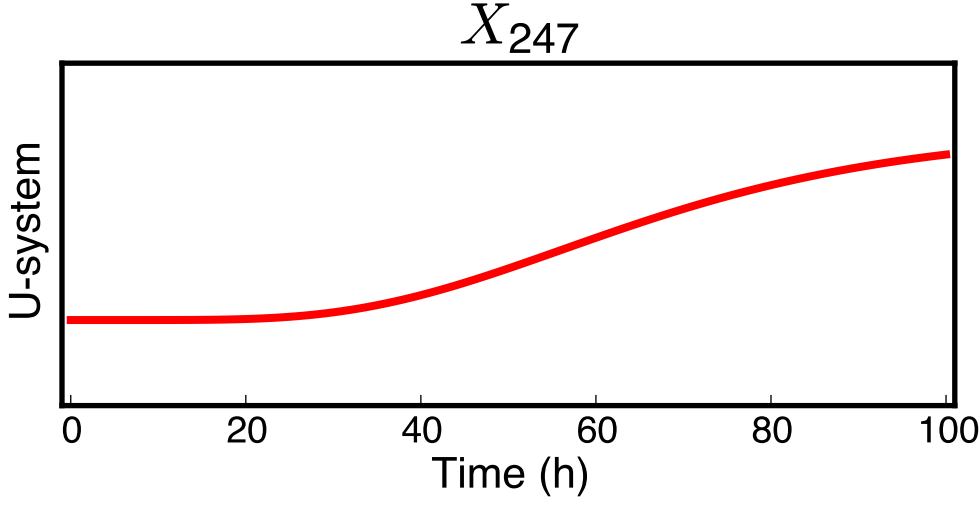
Time (h)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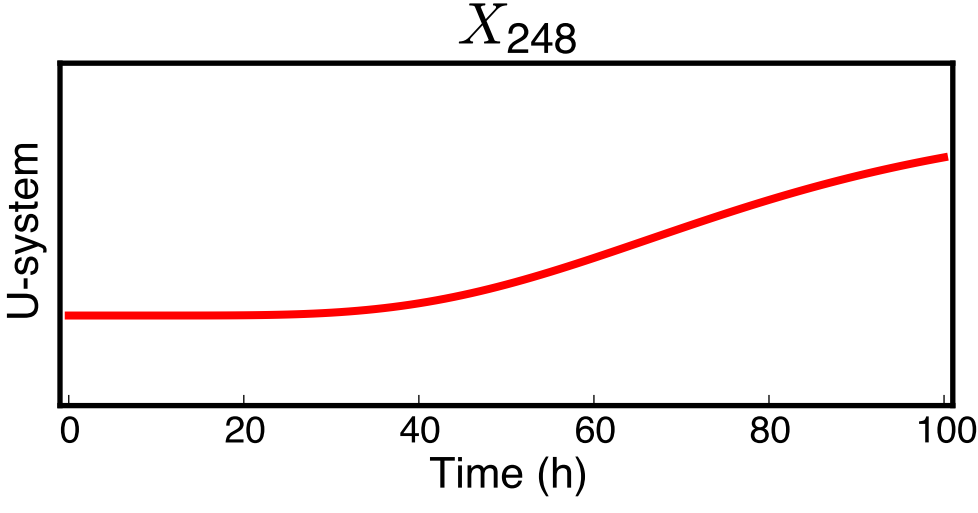
Time (h)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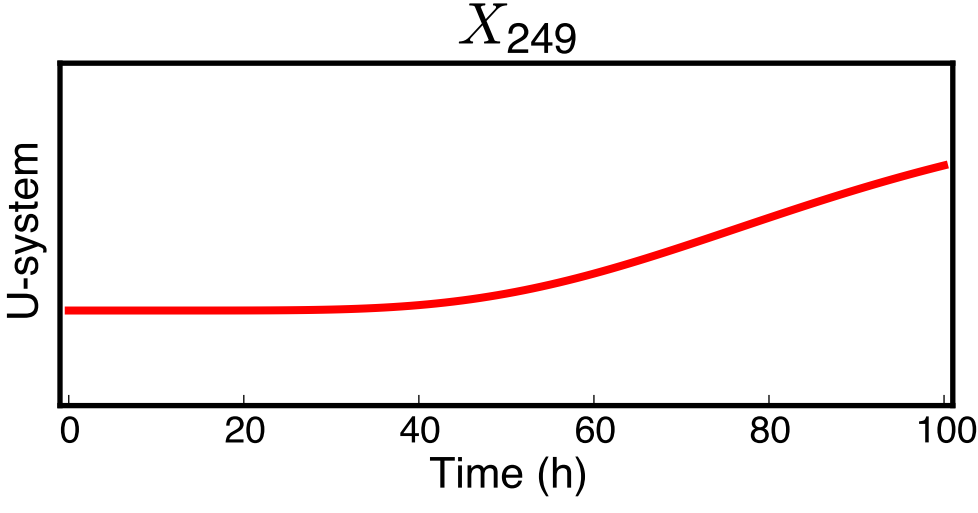
Time (h)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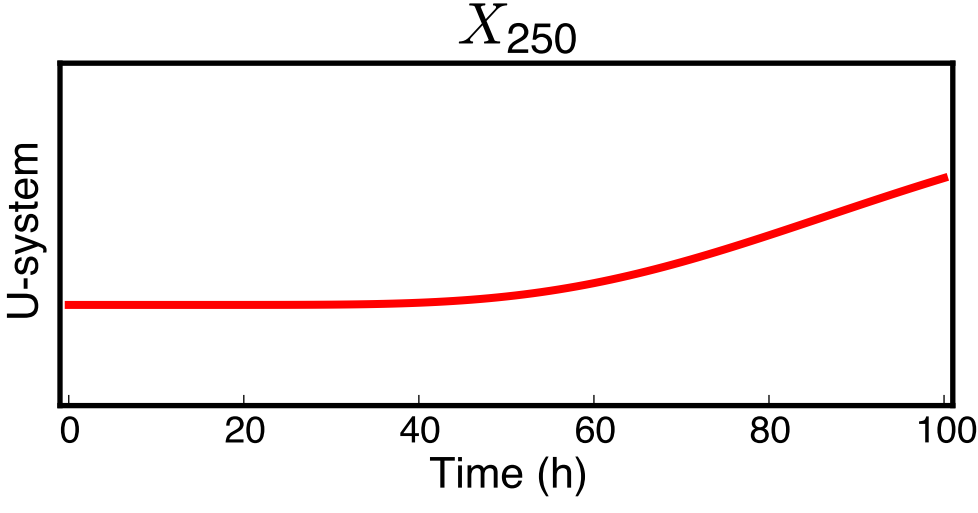
Time (h)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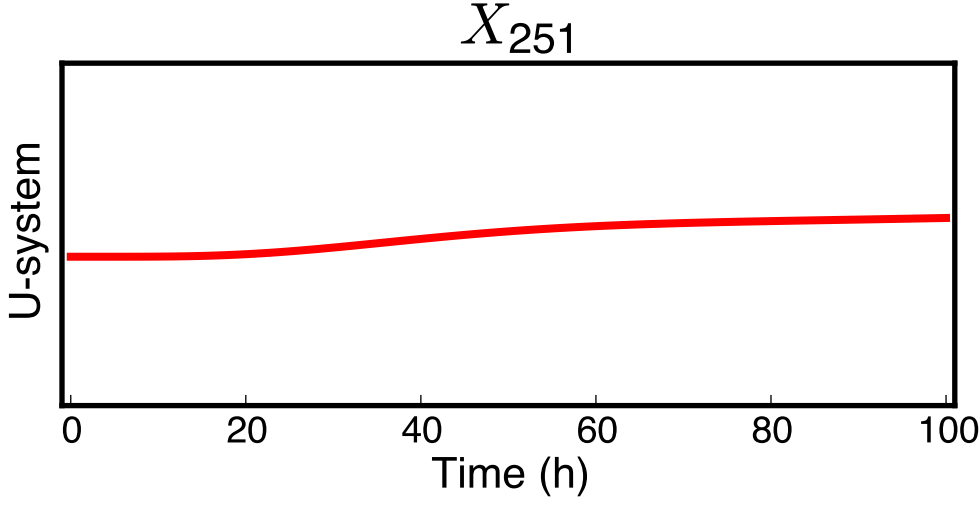
Time (h)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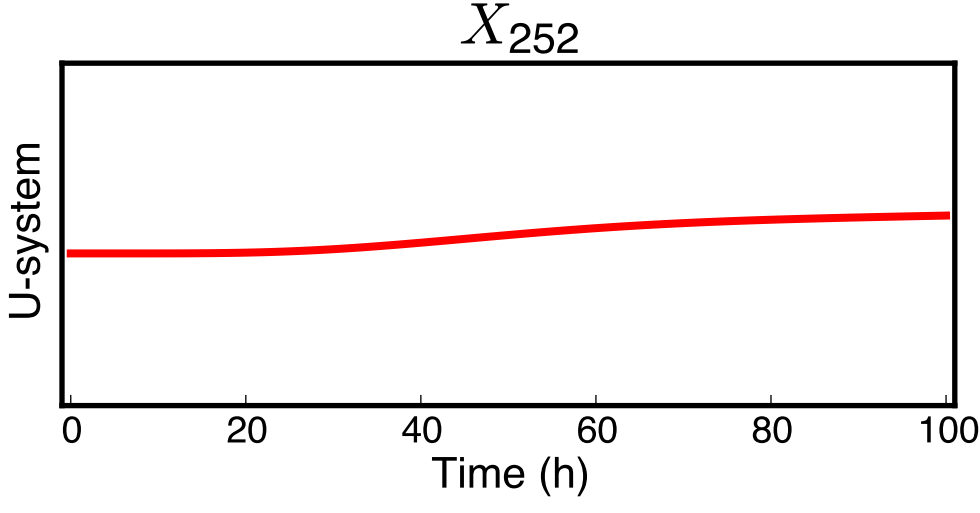
Time (h)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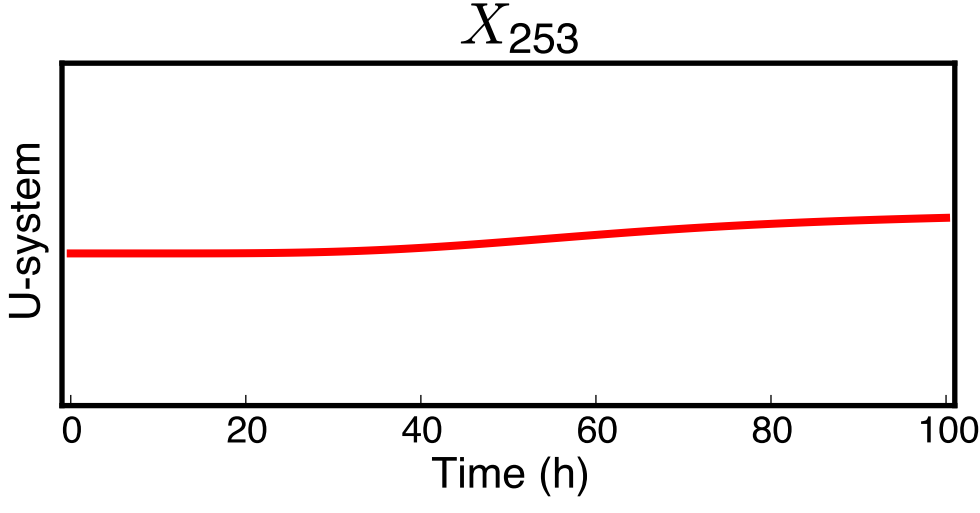
Time (h)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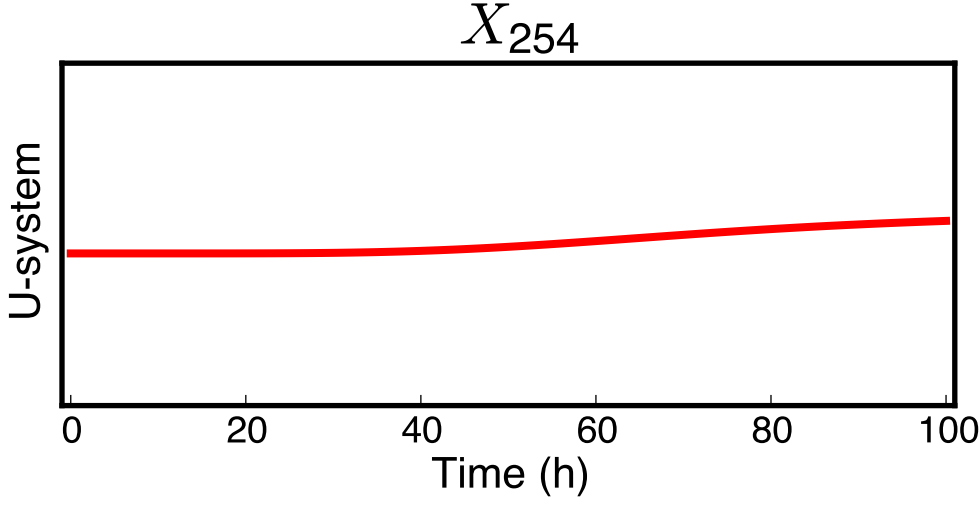
Time (h)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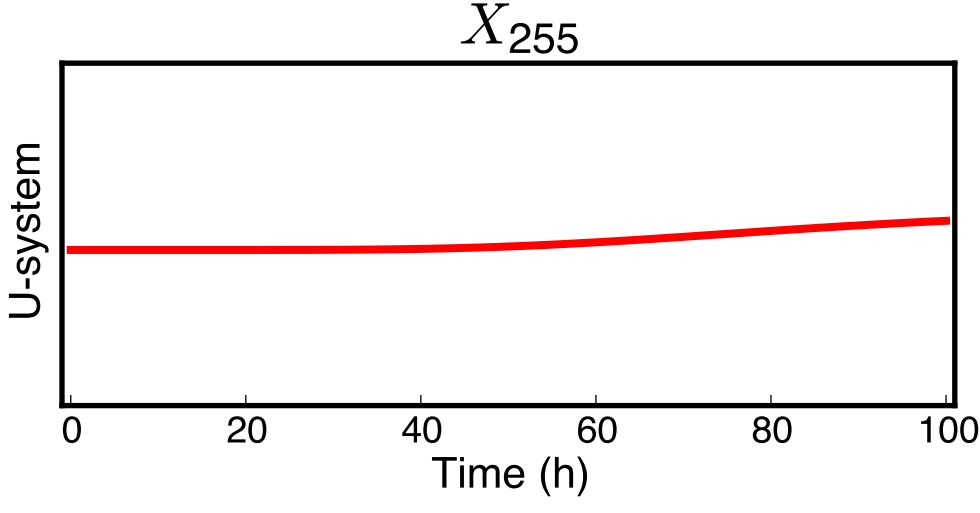
Time (h)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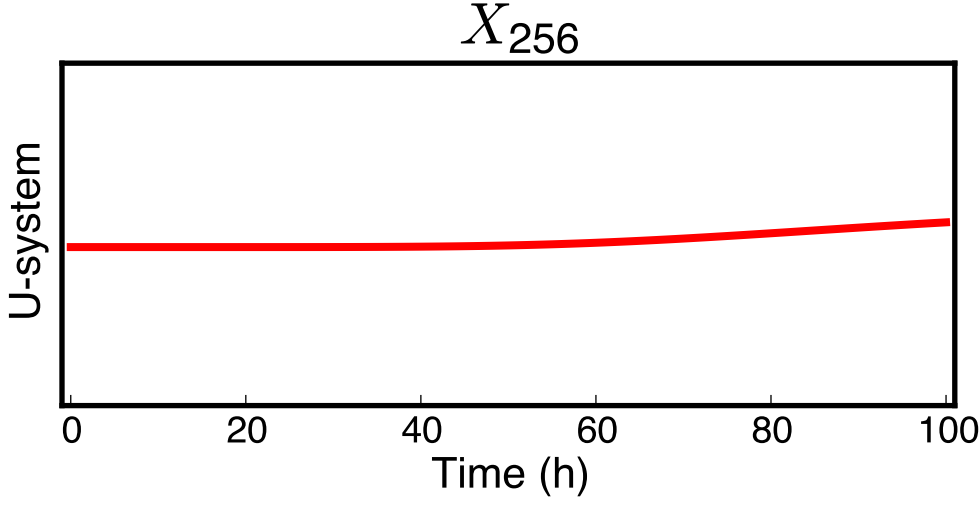
Time (h)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U-system
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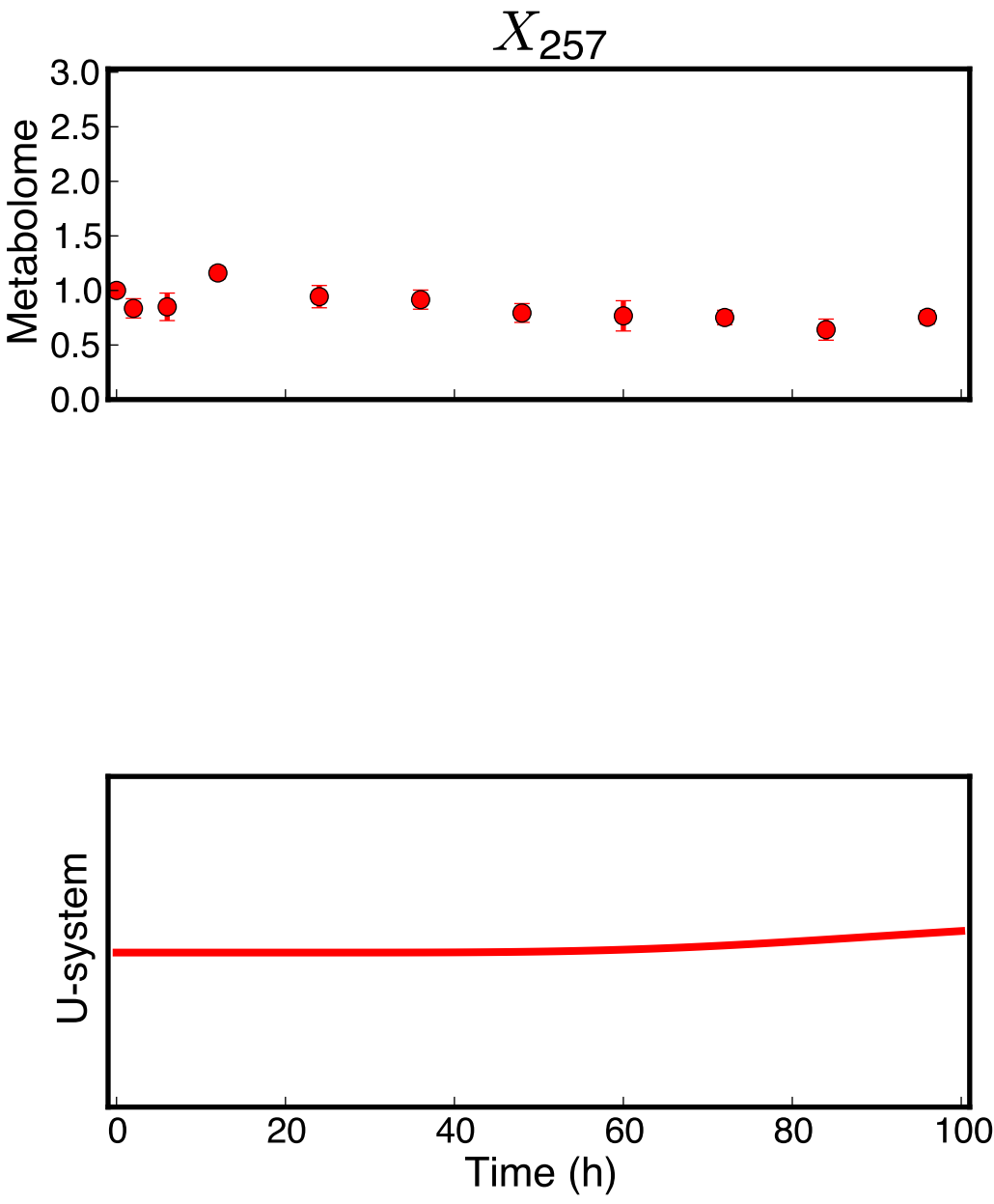
Time (h)


X_{257}
Metabolome
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1.0
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U-system
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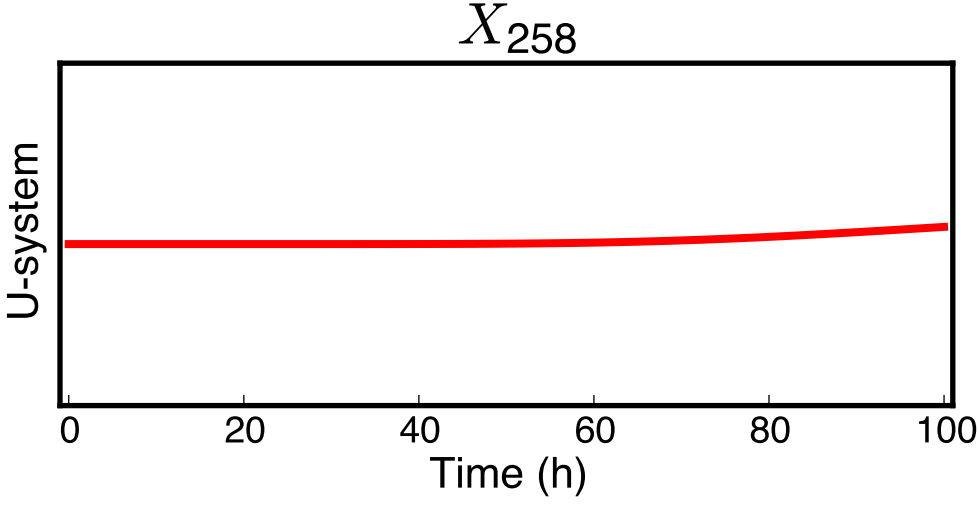
80
100
Time (h)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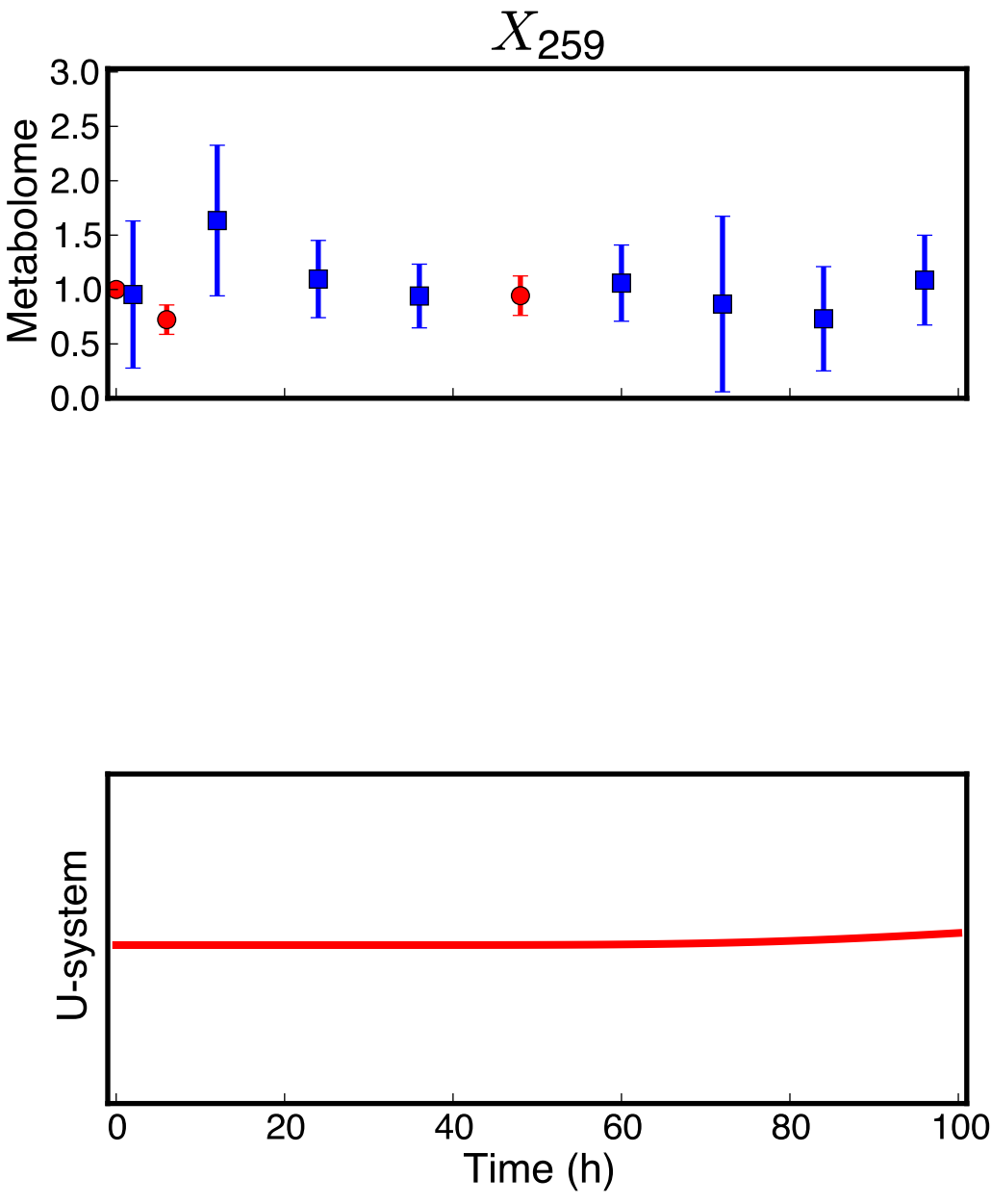
Time (h)


X_{259}
Metabolome
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1.0
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U-system
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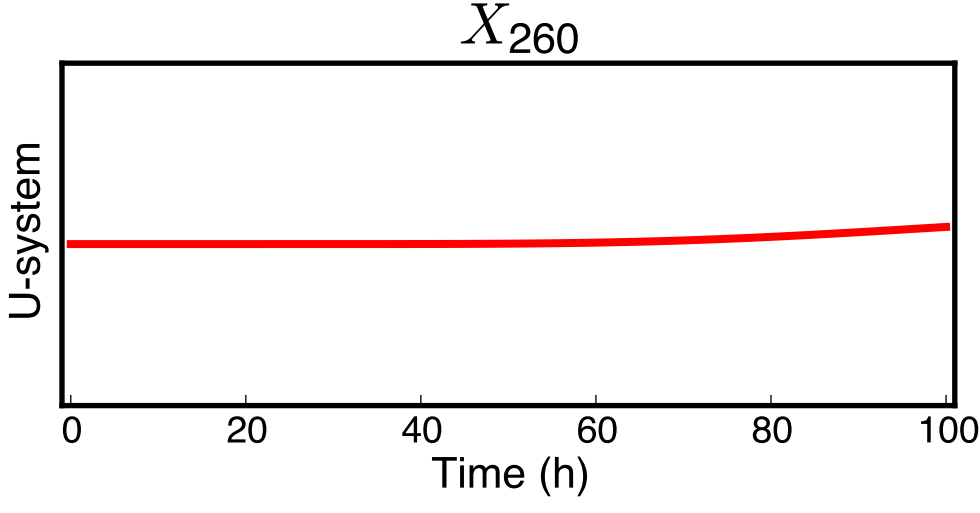
Time (h)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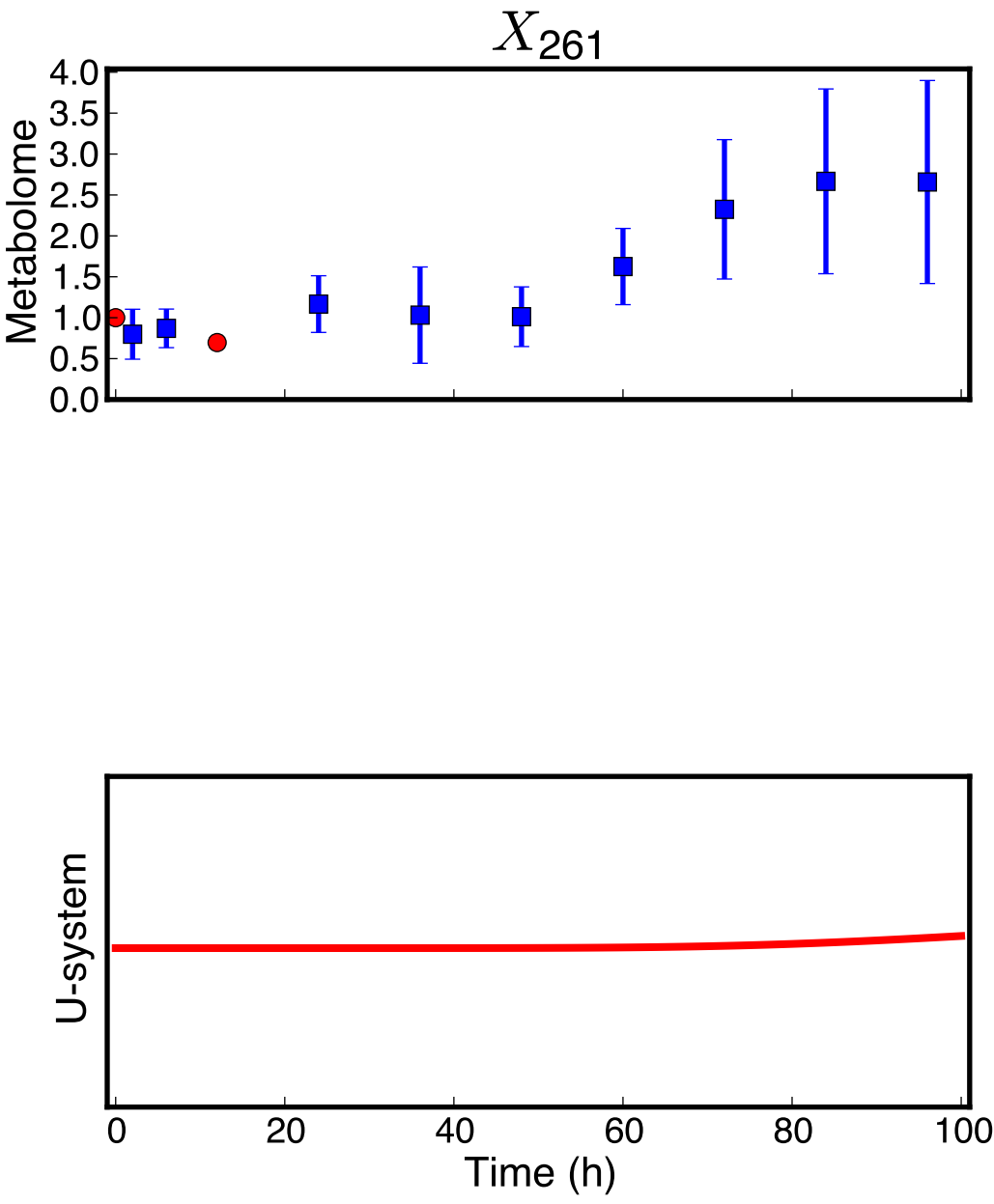
Time (h)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U-system
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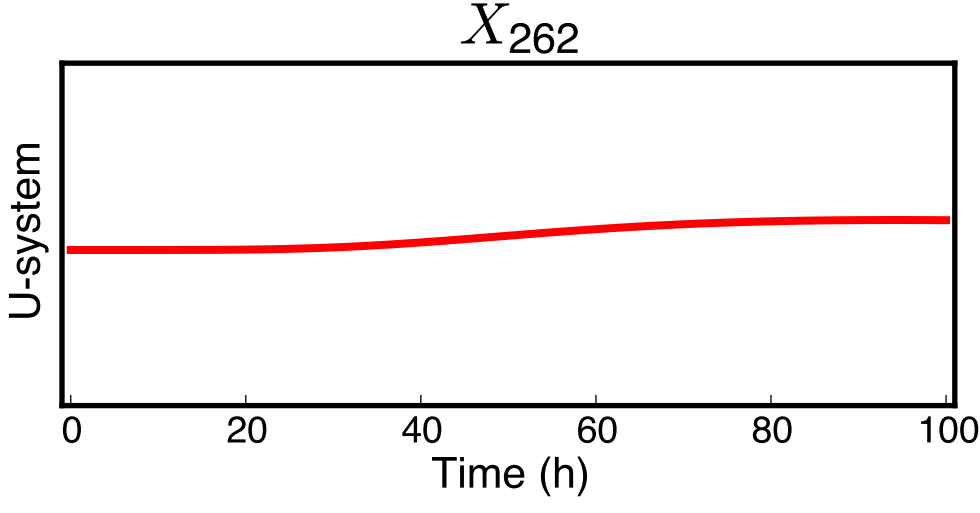
100
Time (h)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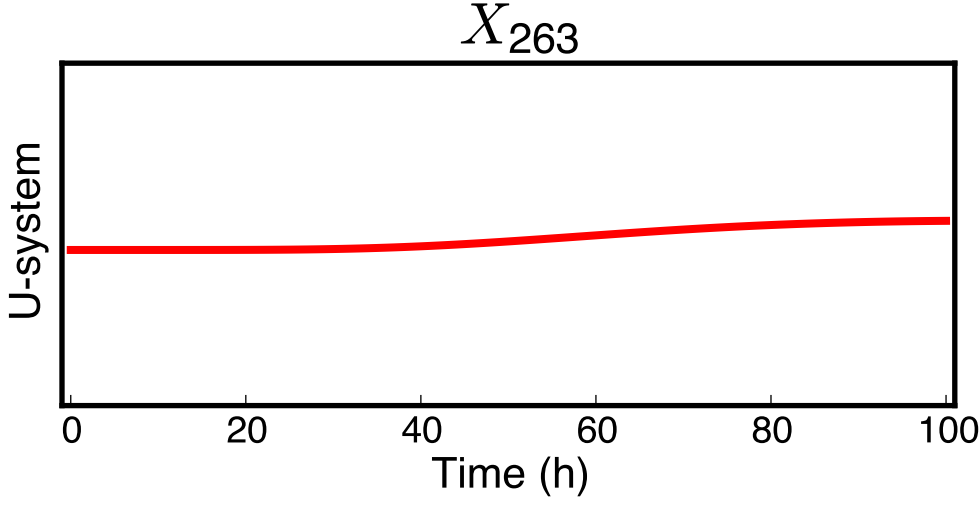
Time (h)


X_{263}
U-system
0
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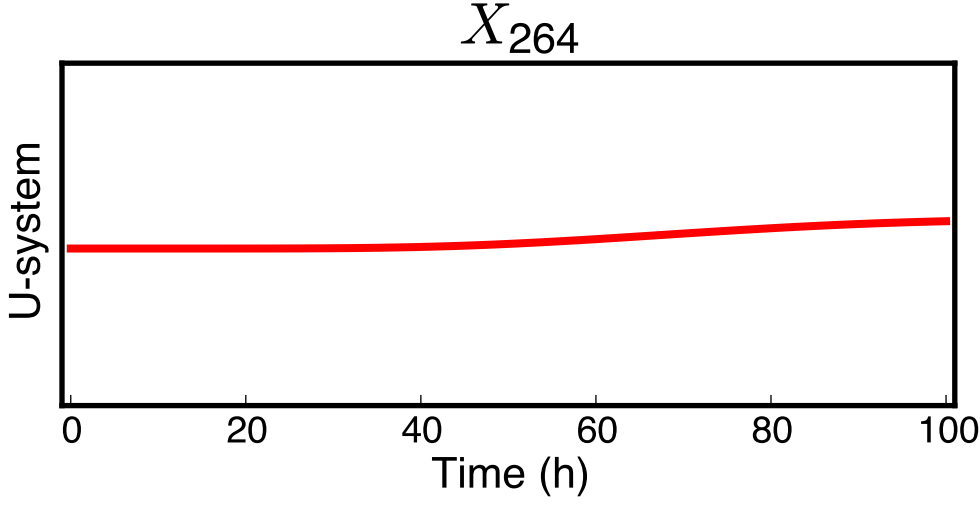
100
Time (h)


X_{264}
U-system
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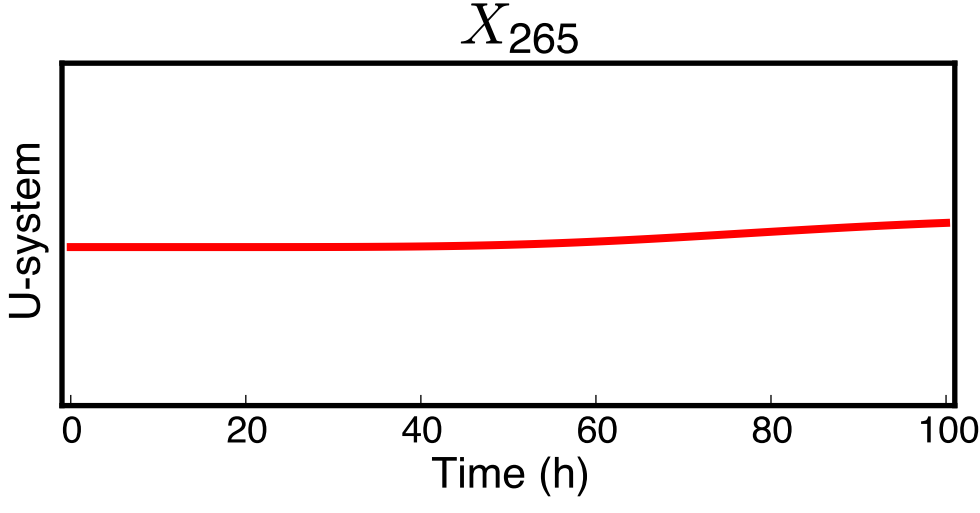
Time (h)


X_{265}
U-system
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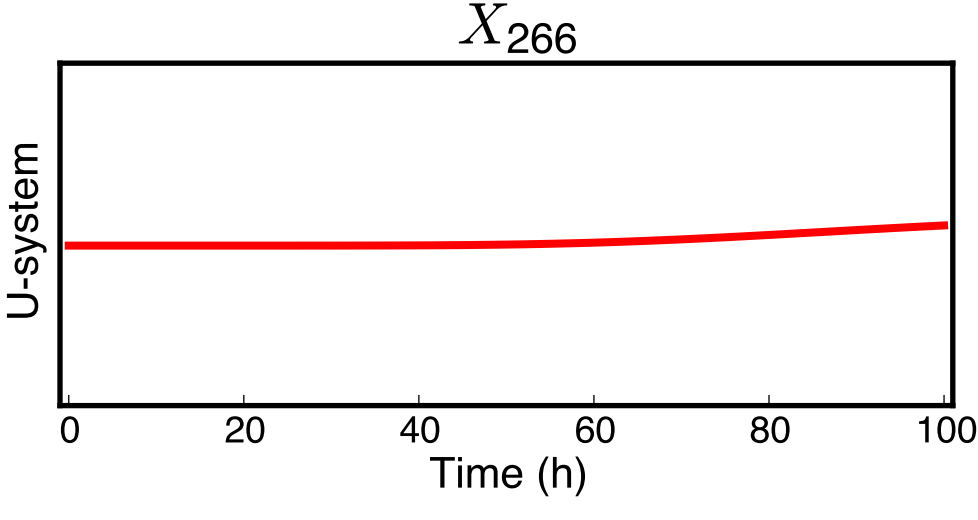
Time (h)


X_{266}
U-system
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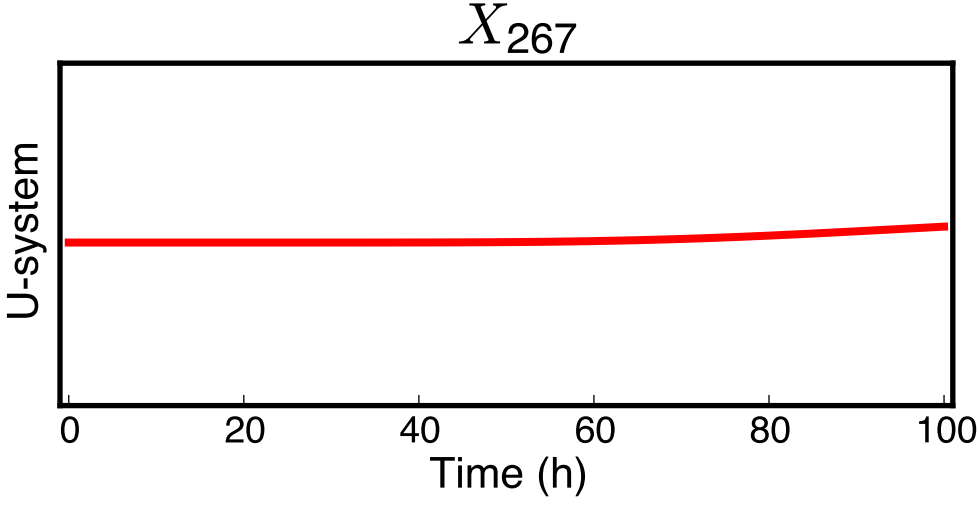
Time (h)


X_{267}
U-system
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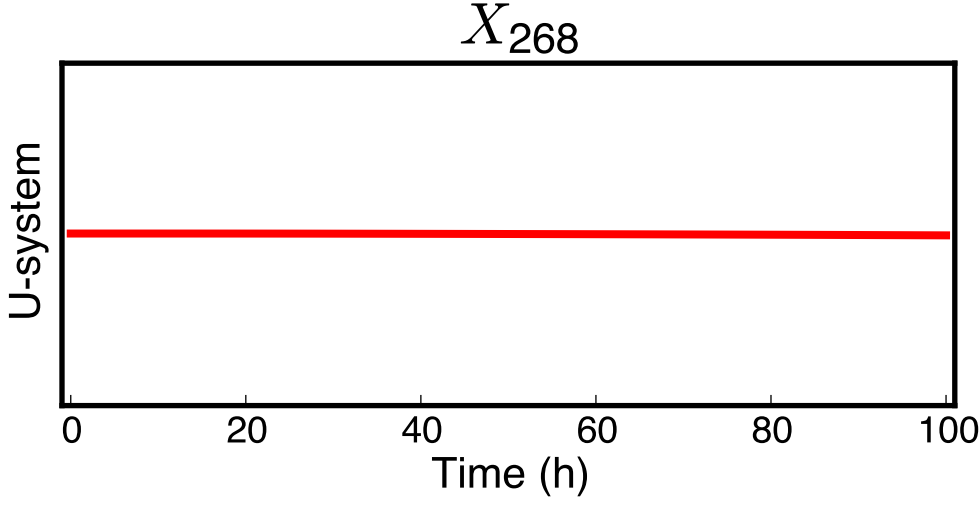
Time (h)


X_{268}
U-system
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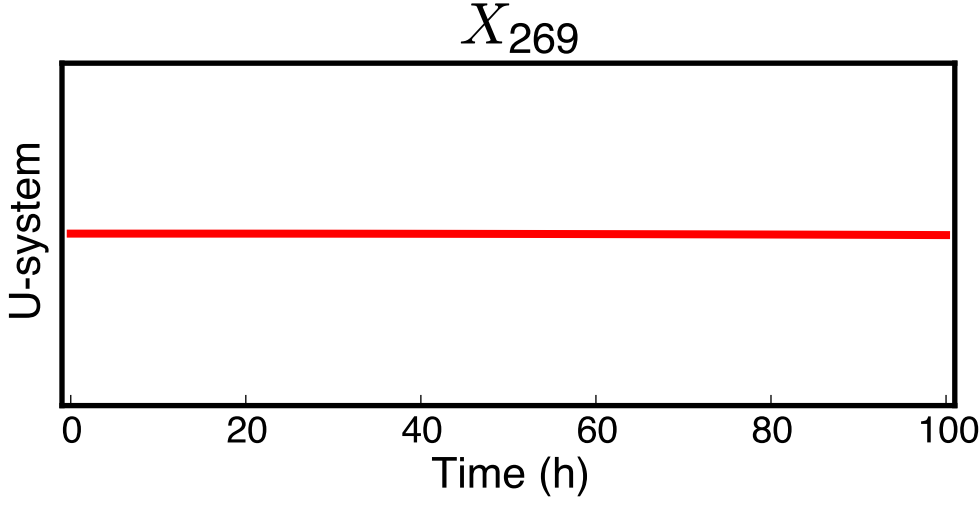
100
Time (h)


X_{269}
U-system
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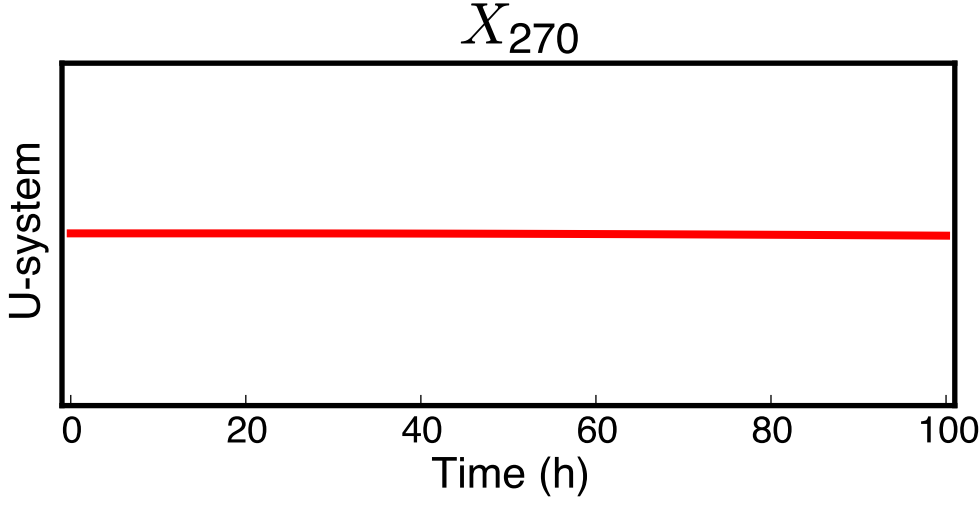
100
Time (h)


X_{270}
U-system
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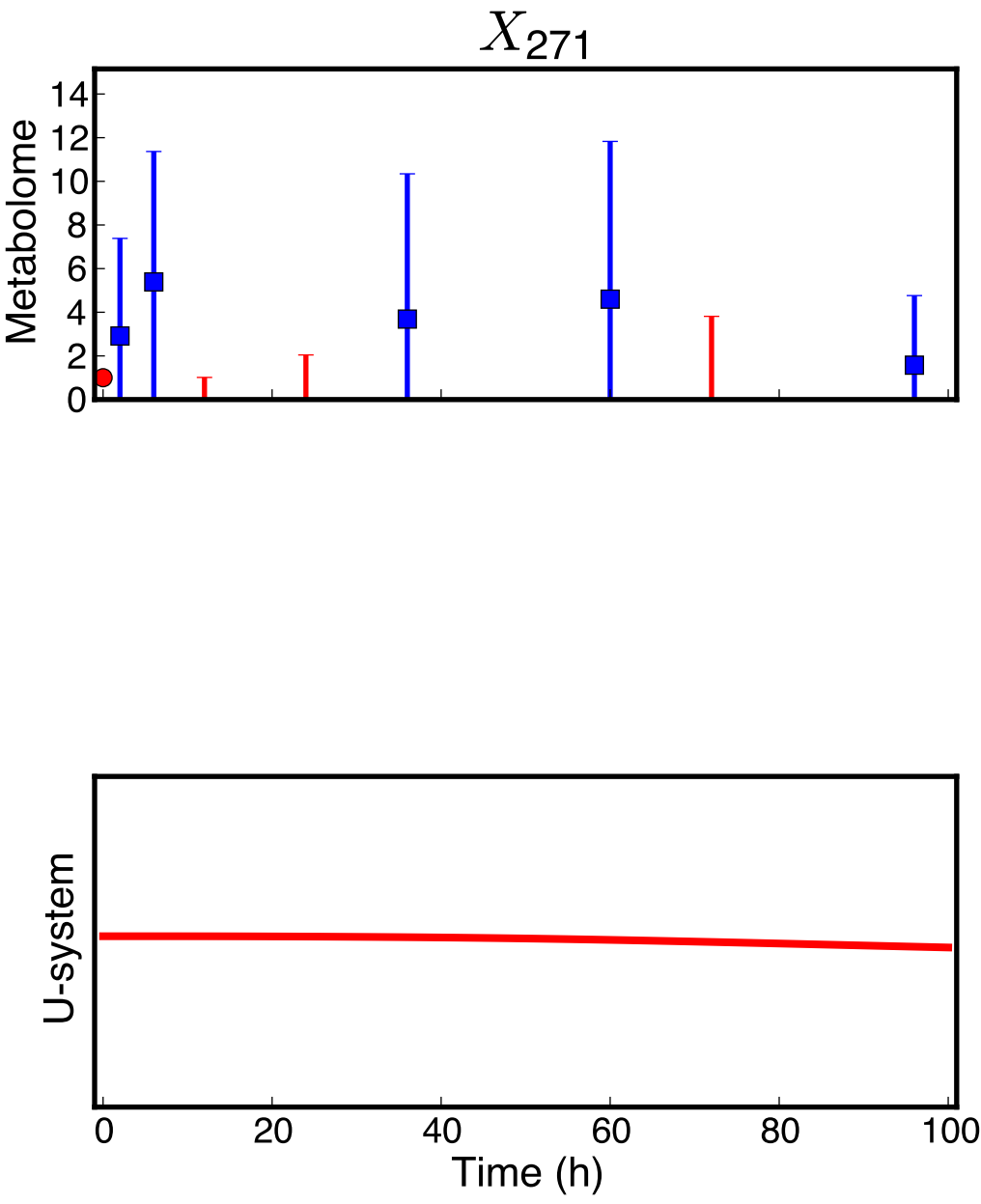
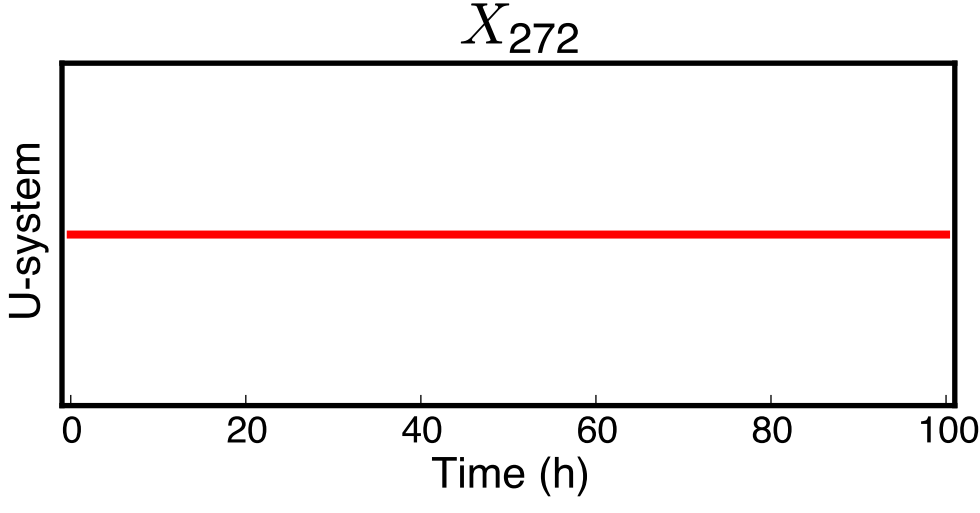
Time (h)


X_{271}
Metabolome
14
12
10
8
6
4
2
0
U-system
0
20
40
60
80
100
Time (h)


X_{272}
U-system
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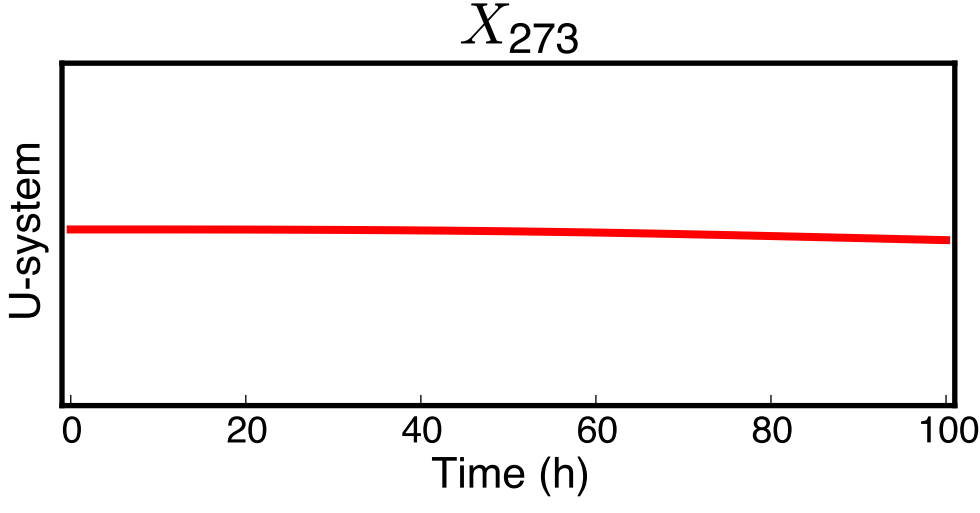
80
100
Time (h)


X_{273}
U-system
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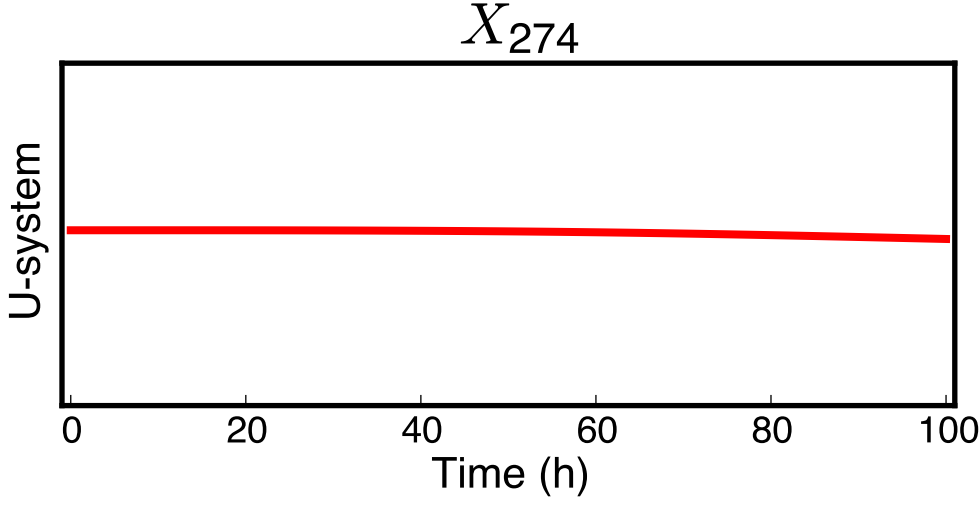
100
Time (h)


X_{274}
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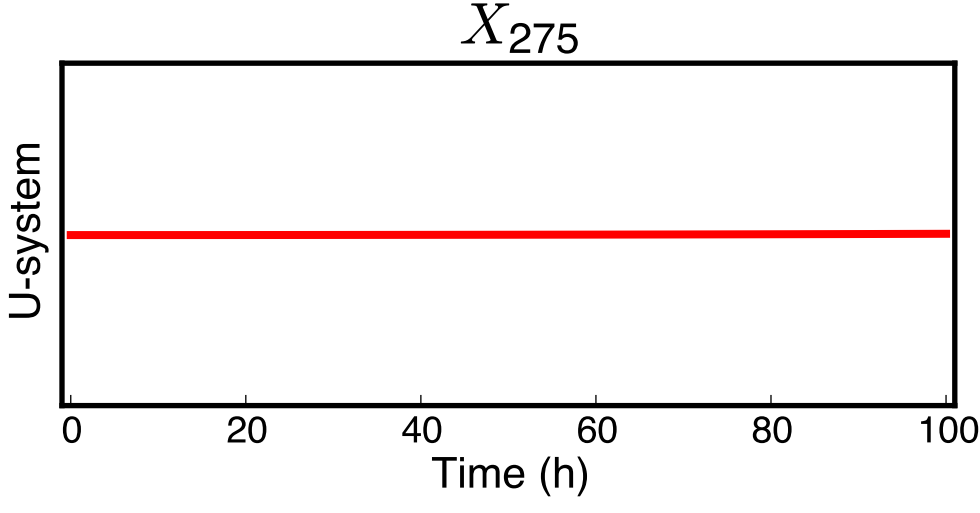
Time (h)


X_{275}
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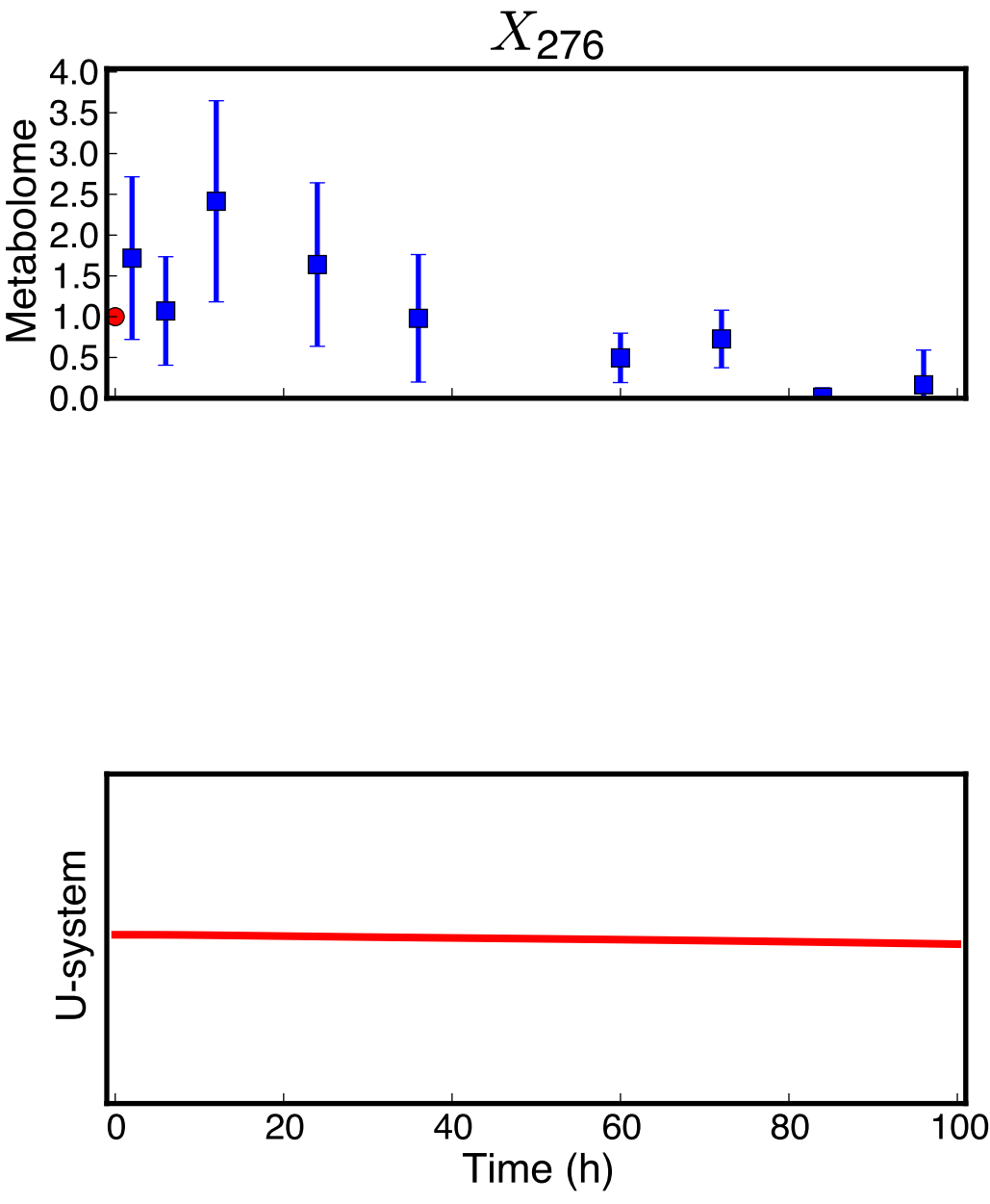
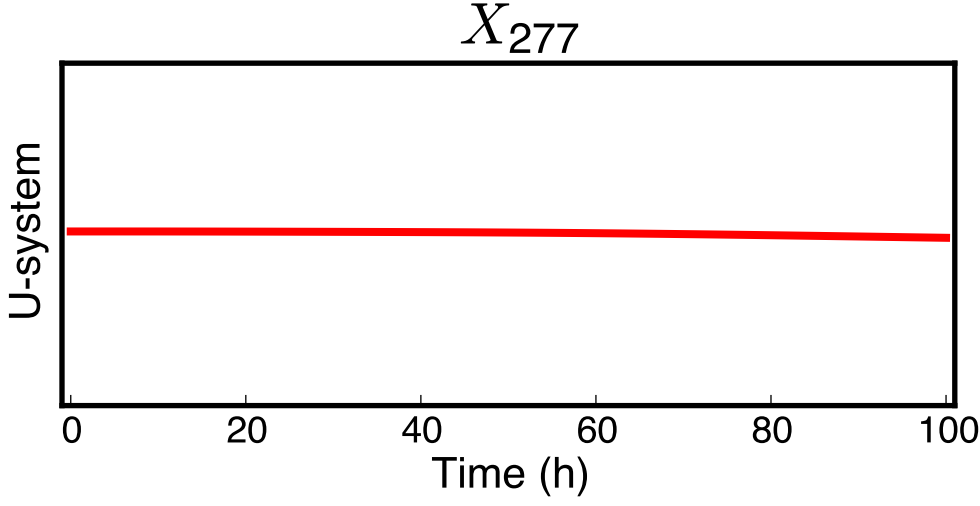
100
Time (h)


X_{276}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{277}
U-system
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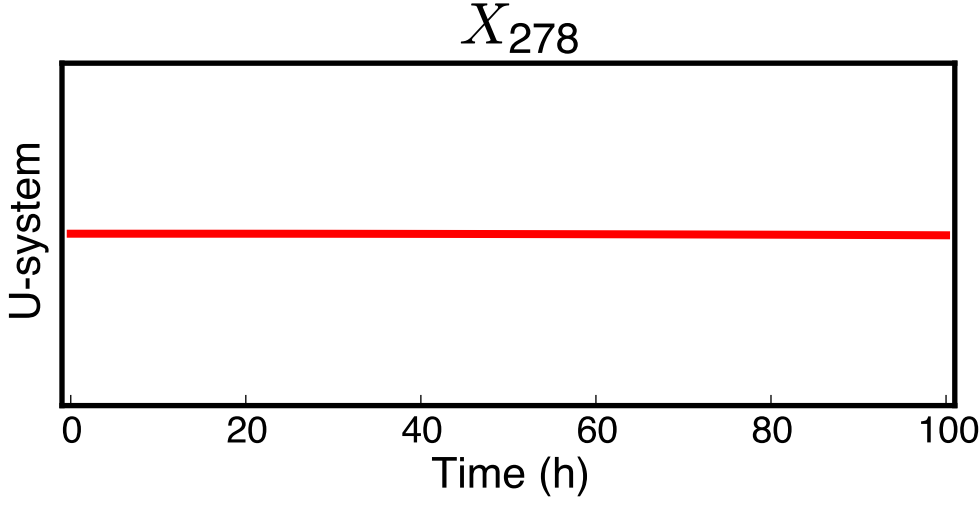
Time (h)


X_{278}
U-system
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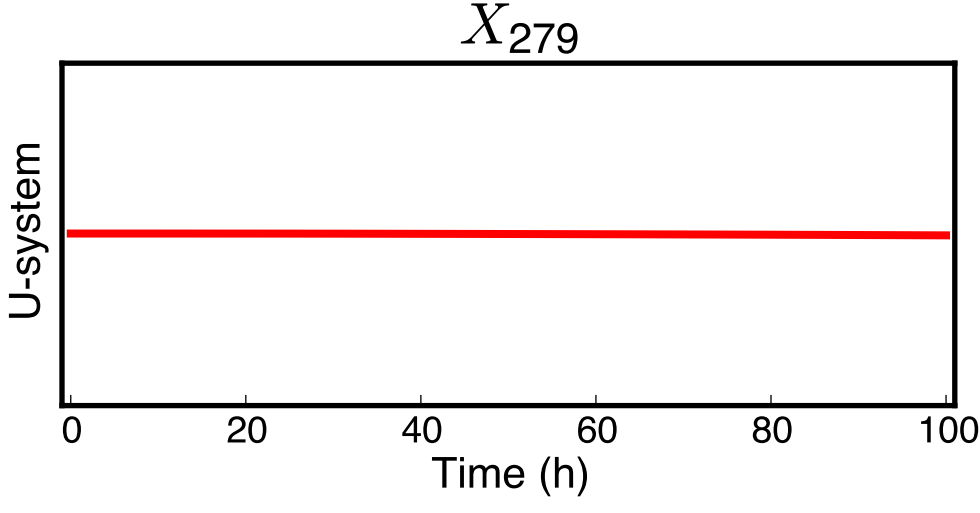
Time (h)


X_{279}
U-system
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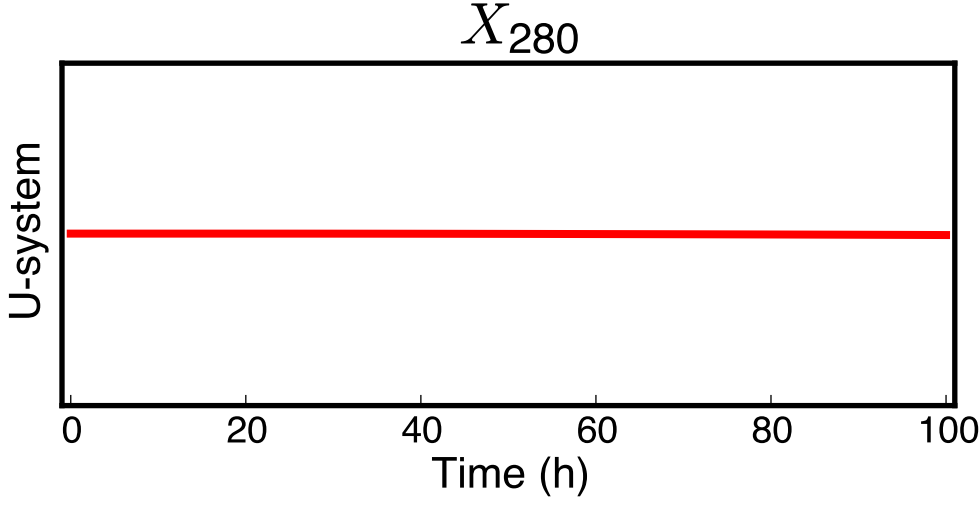
Time (h)


X_{280}
U-system
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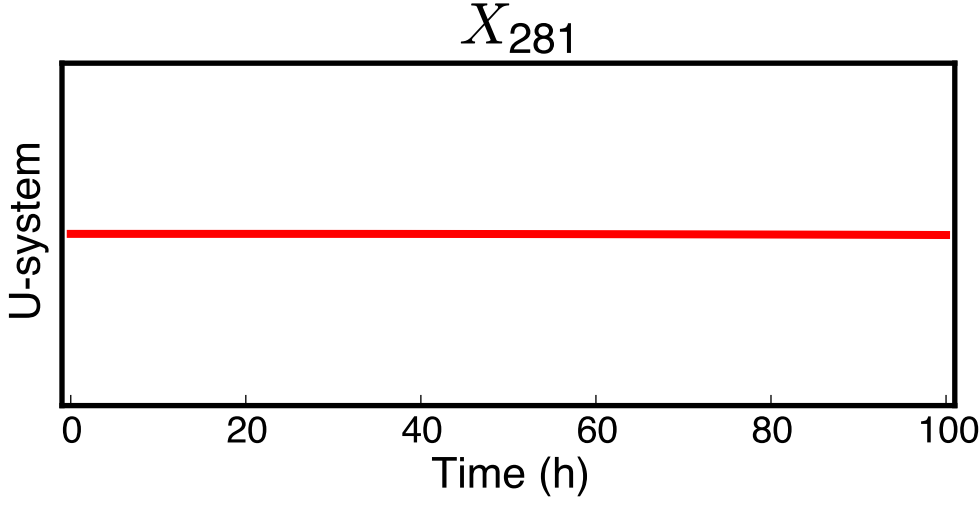
80
100
Time (h)


X_{281}
U-system
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40
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80
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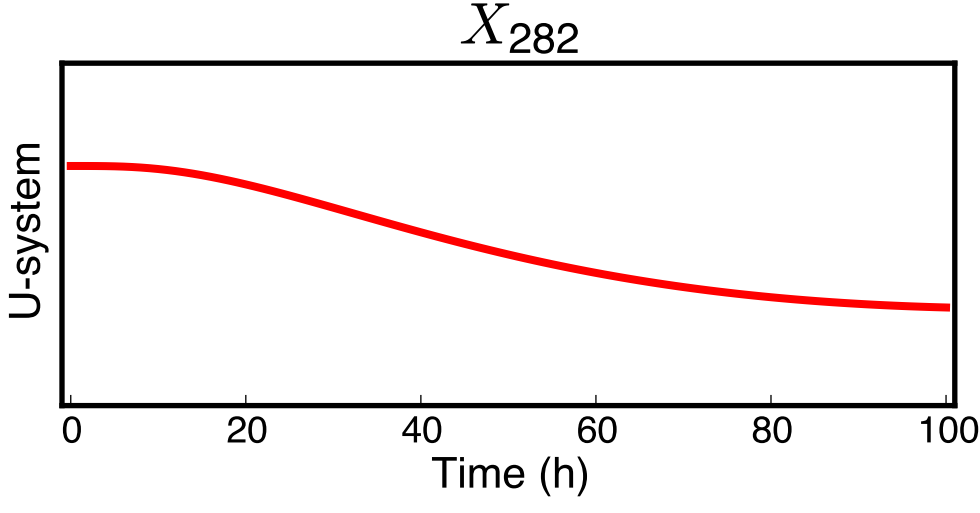
Time (h)


X_{282}
U-system
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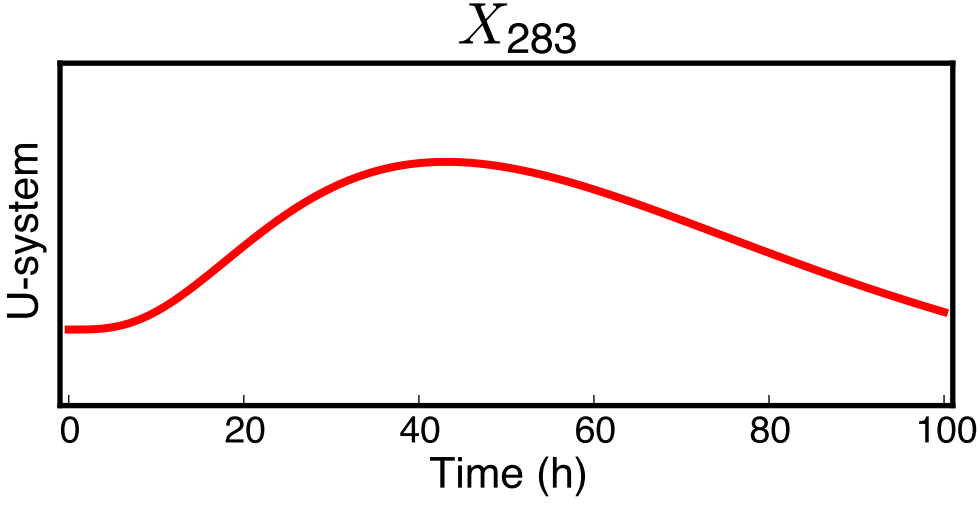
Time (h)


X_{283}
U-system
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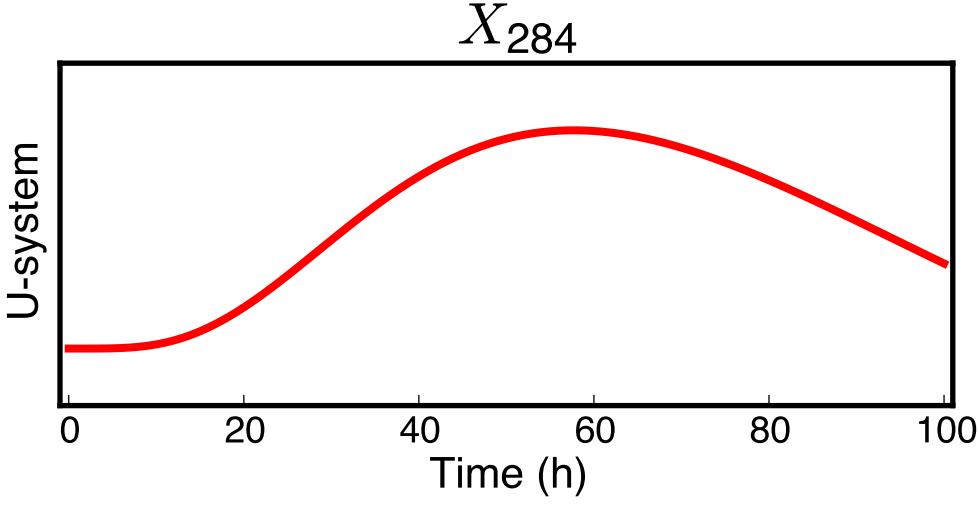
80
100
Time (h)


X_{284}
U-system
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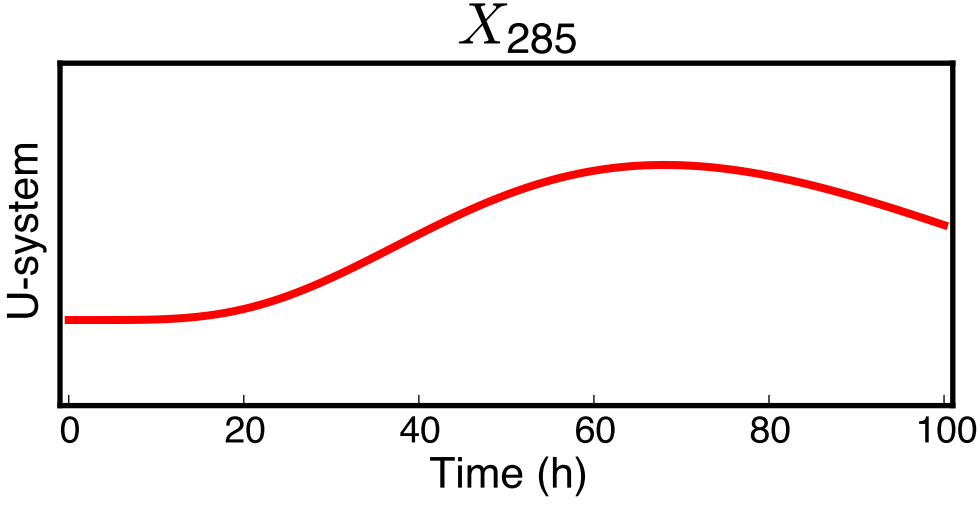
Time (h)


X_{285}
U-system
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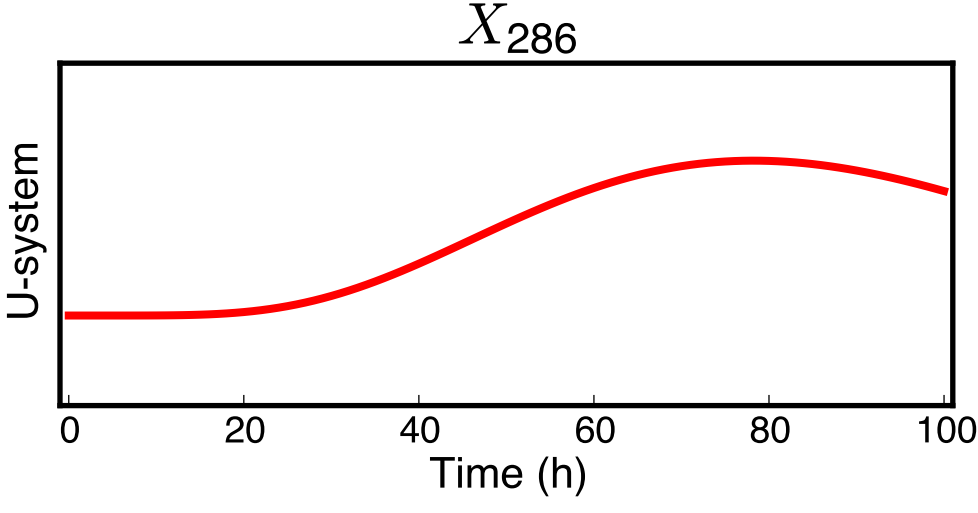
80
100
Time (h)


X_{286}
U-system
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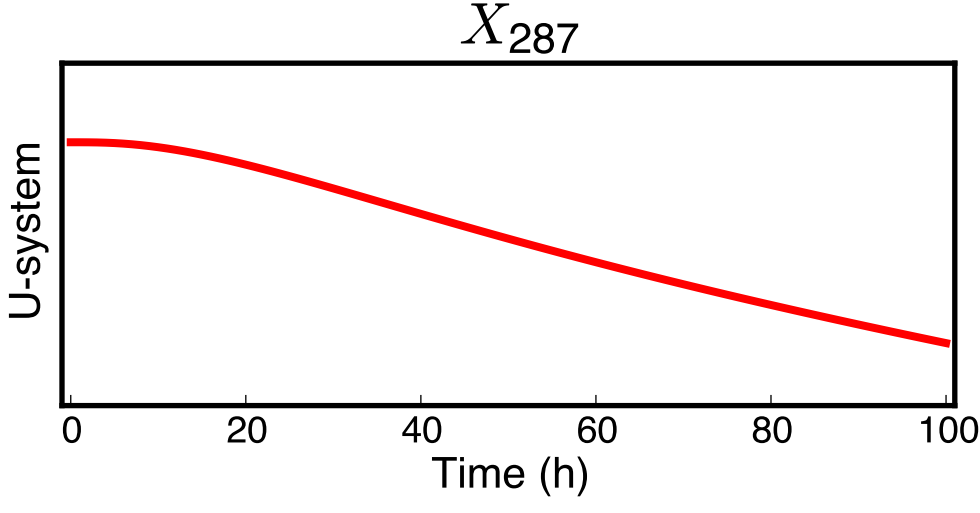
80
100
Time (h)


X_{287}
U-system
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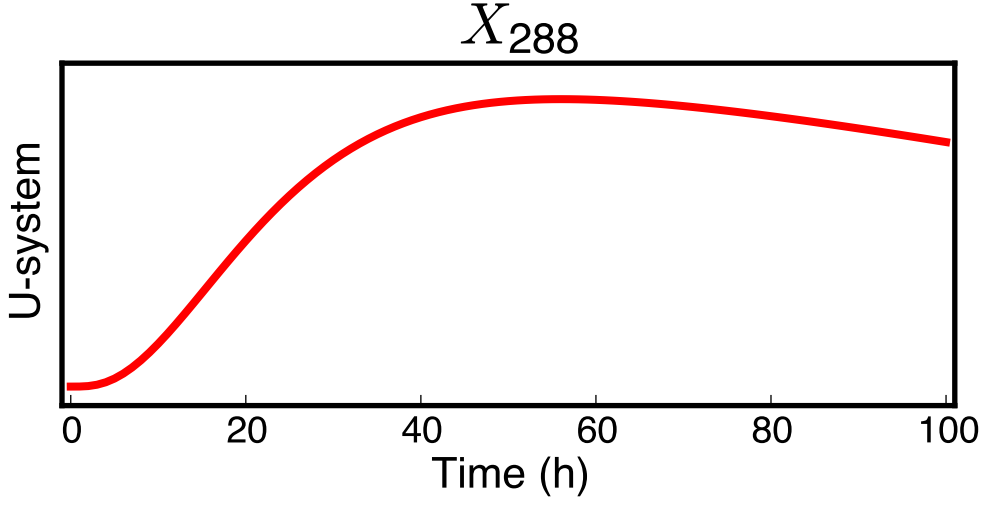
80
100
Time (h)


X_{288}
U-system
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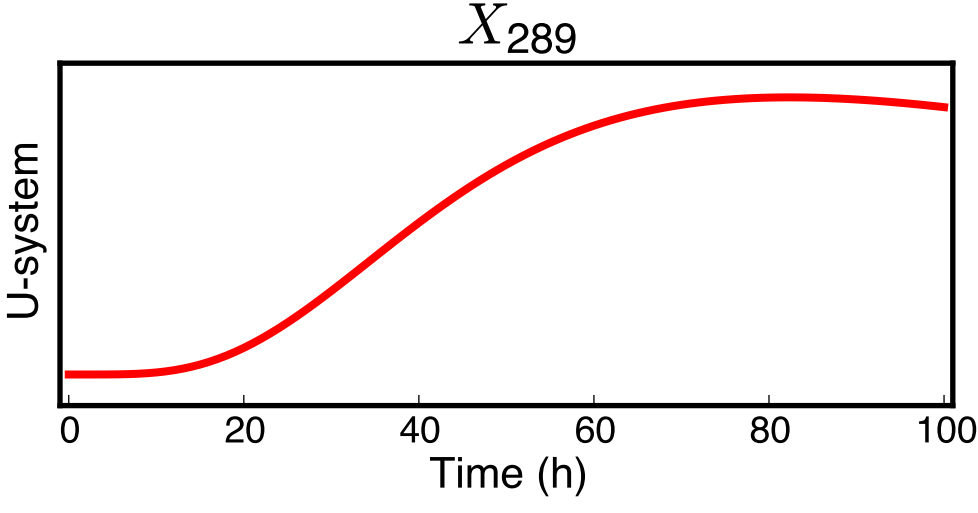
80
100
Time (h)


X_{289}
U-system
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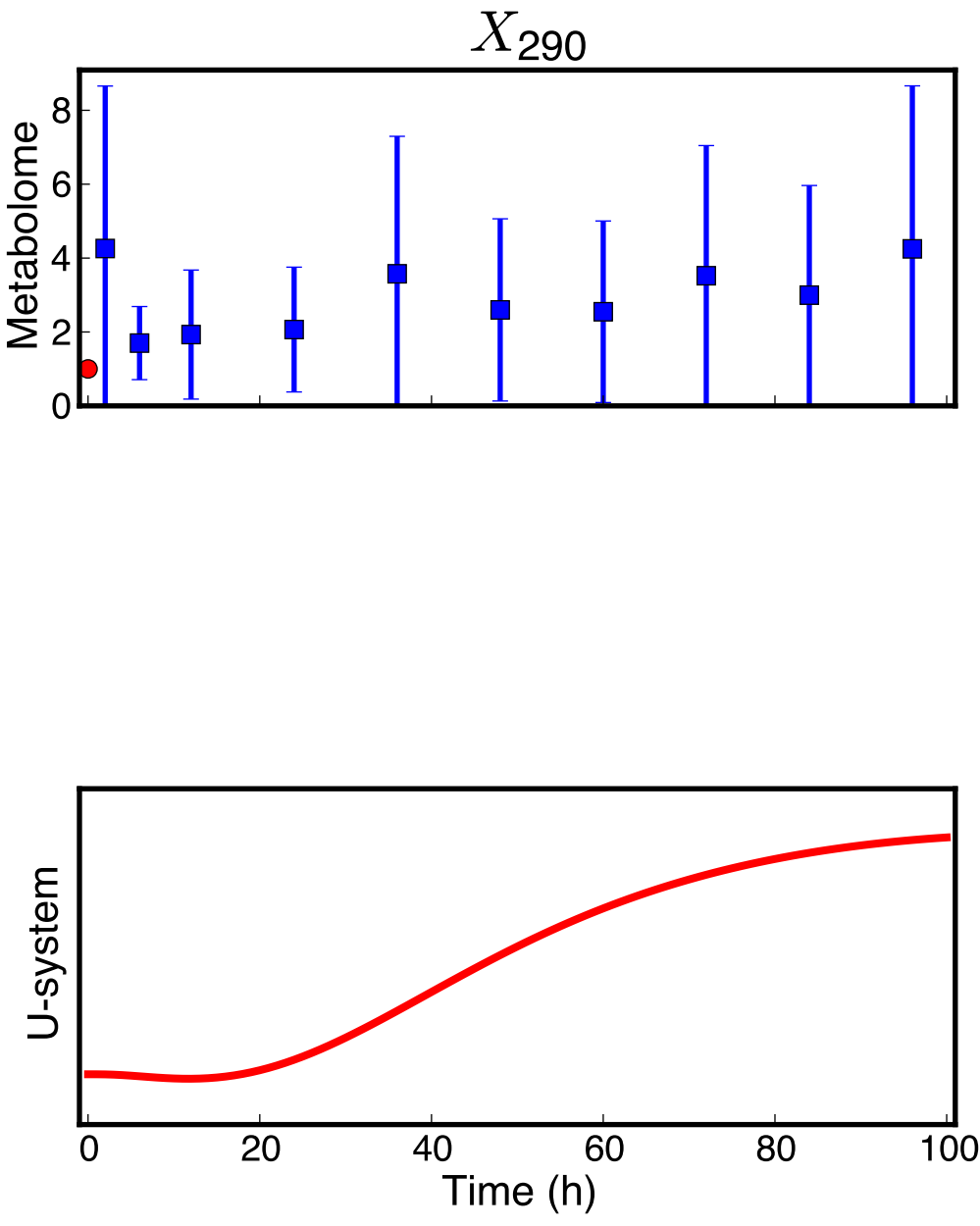
40
60
80
100
Time (h)


X_{290}
Metabolome
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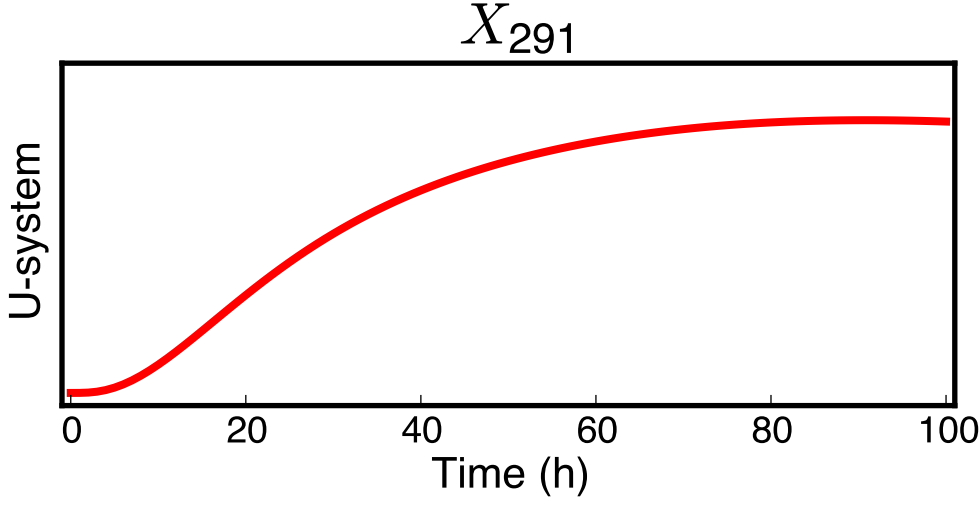
2
4
6
8
U-system
0
20
40
60
80
100
Time (h)


X_{291}
U-system
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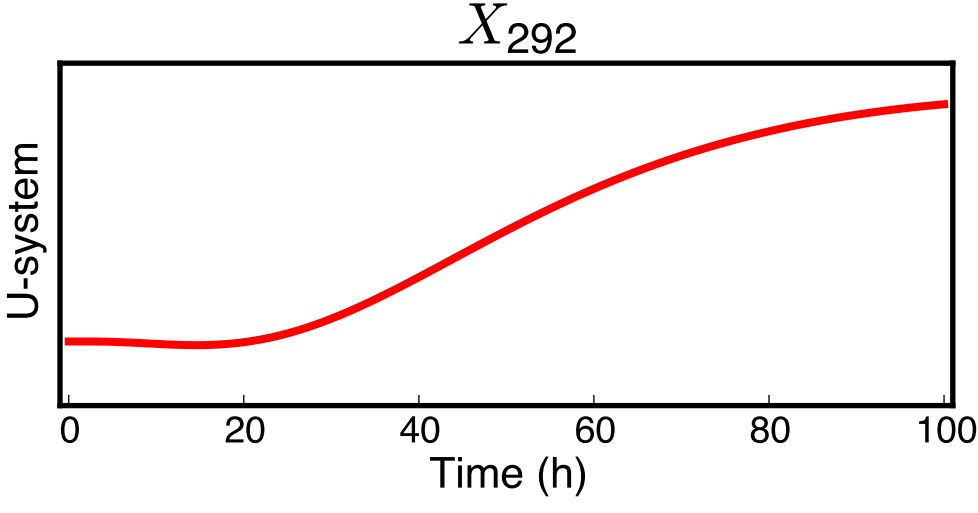
80
100
Time (h)


X_{292}
U-system
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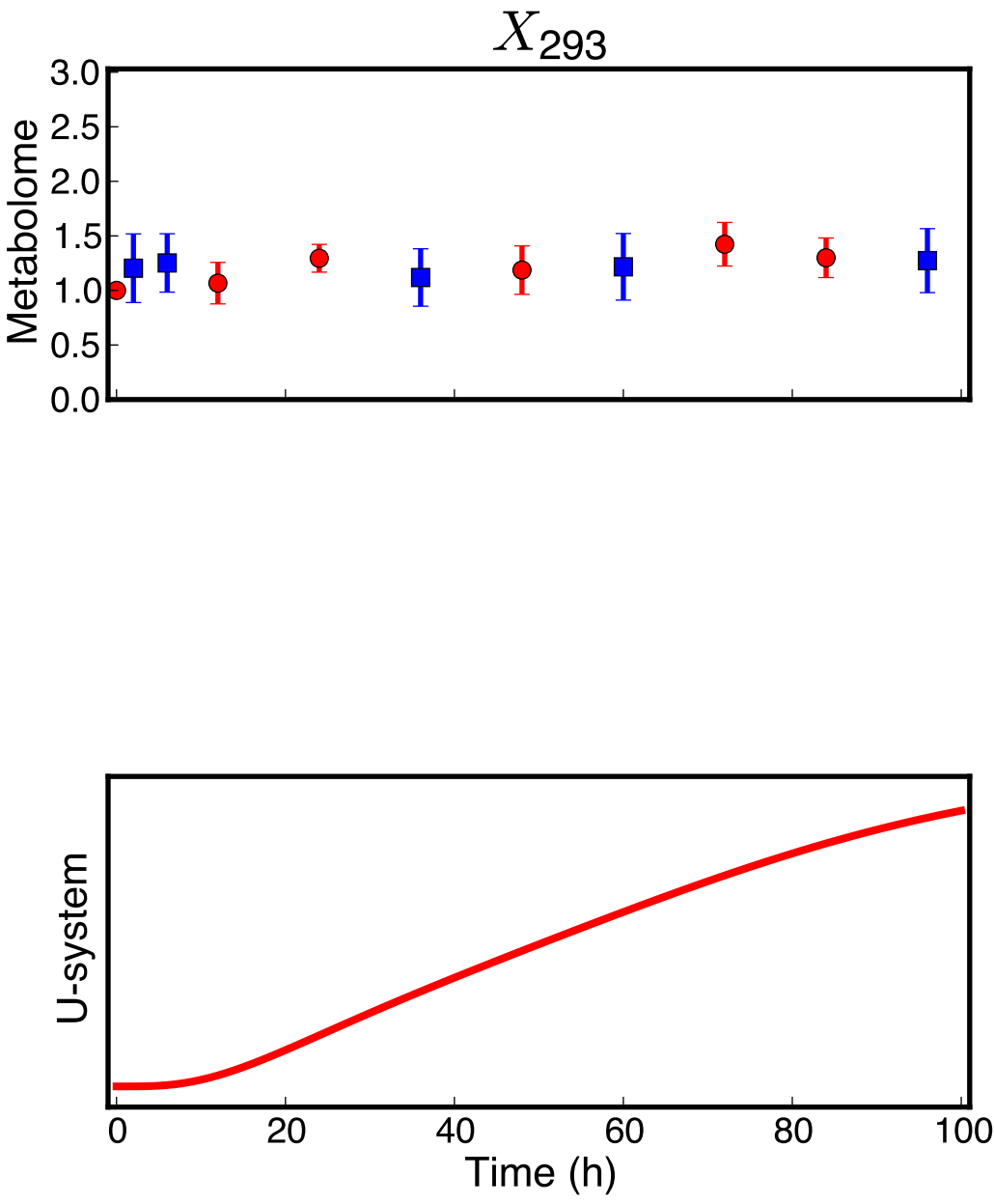
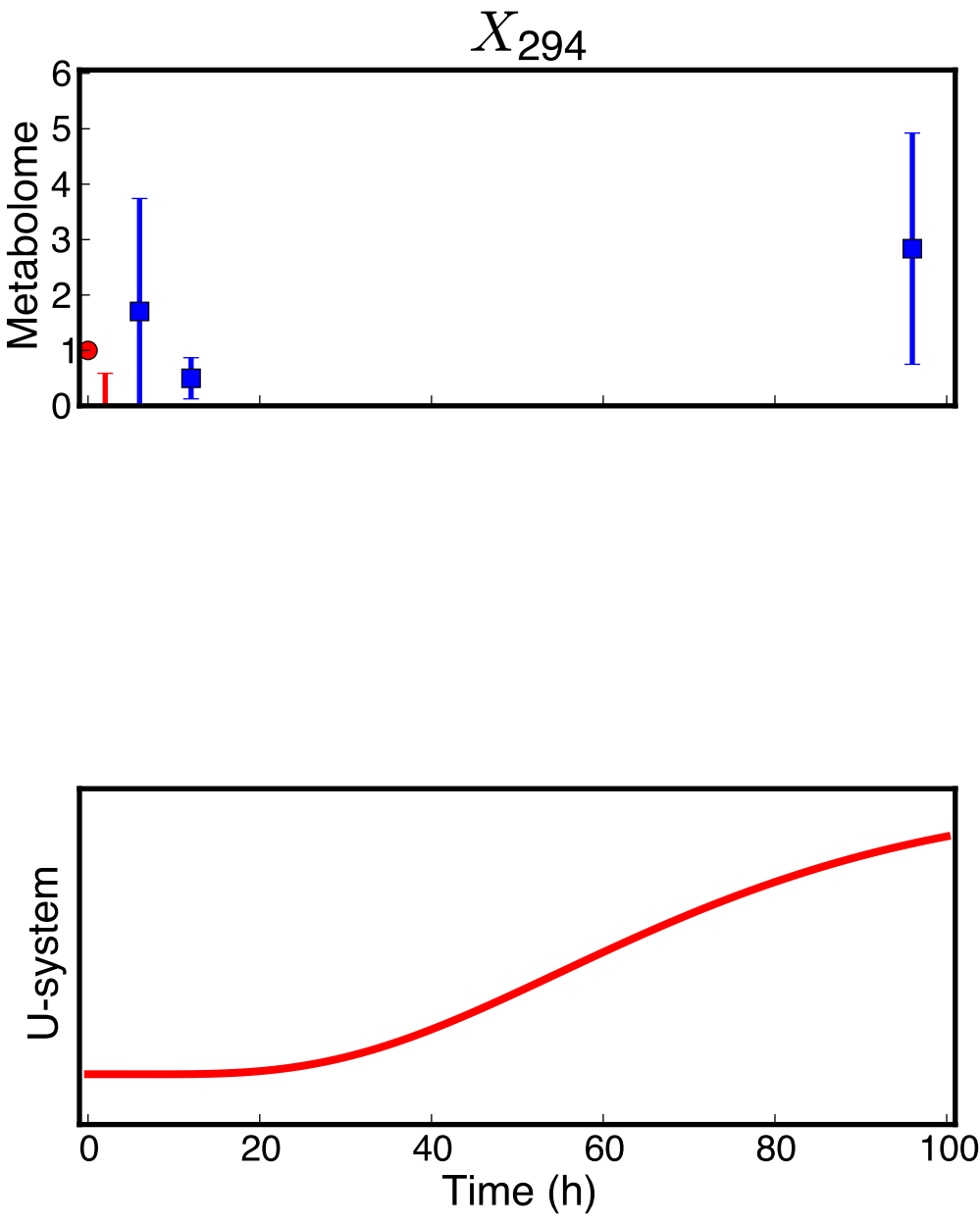
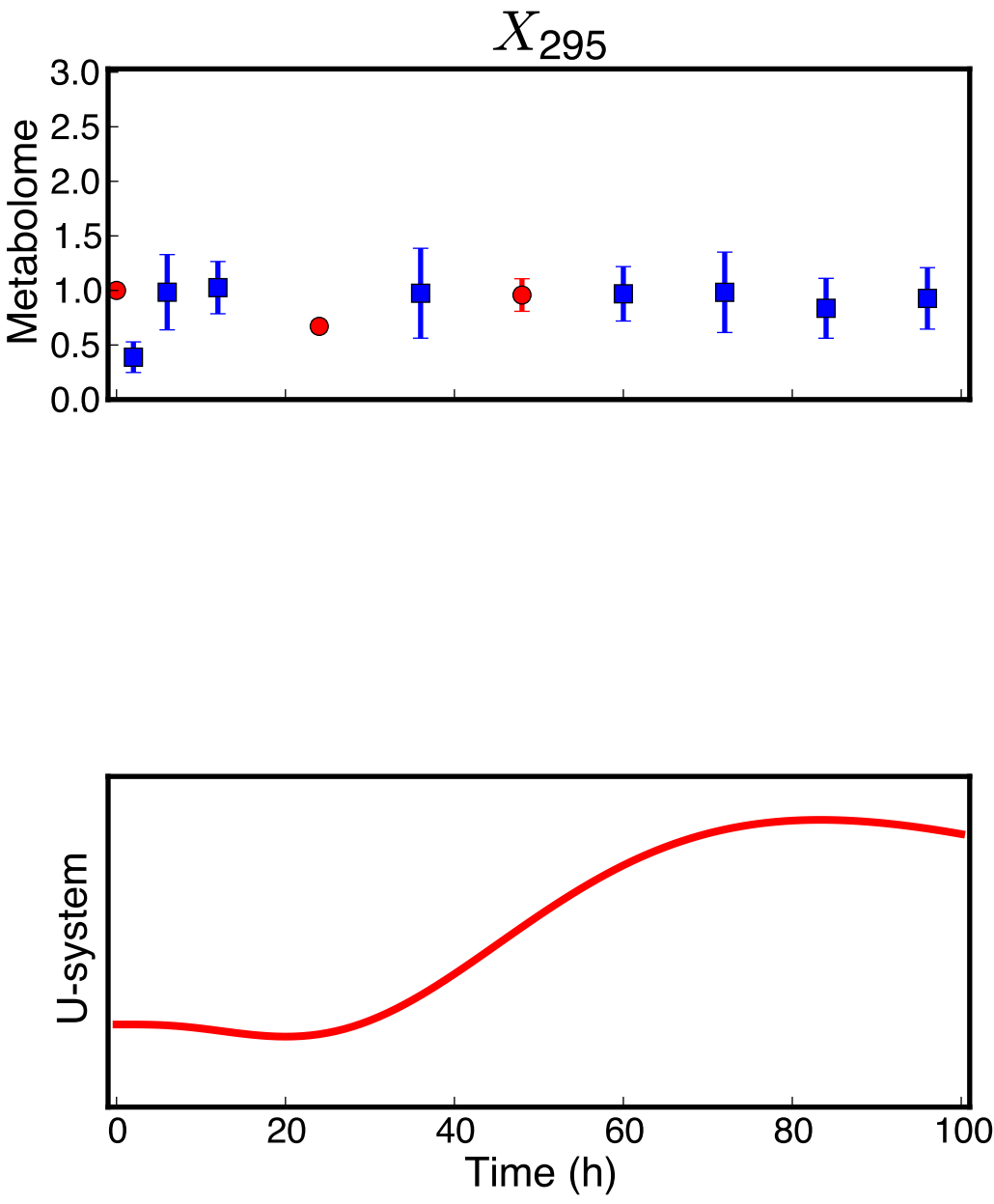
Time (h)


X_{293}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{294}
Metabolome
0
1
2
3
4
5
6
U-system
0
20
40
60
80
100
Time (h)


X_{295}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
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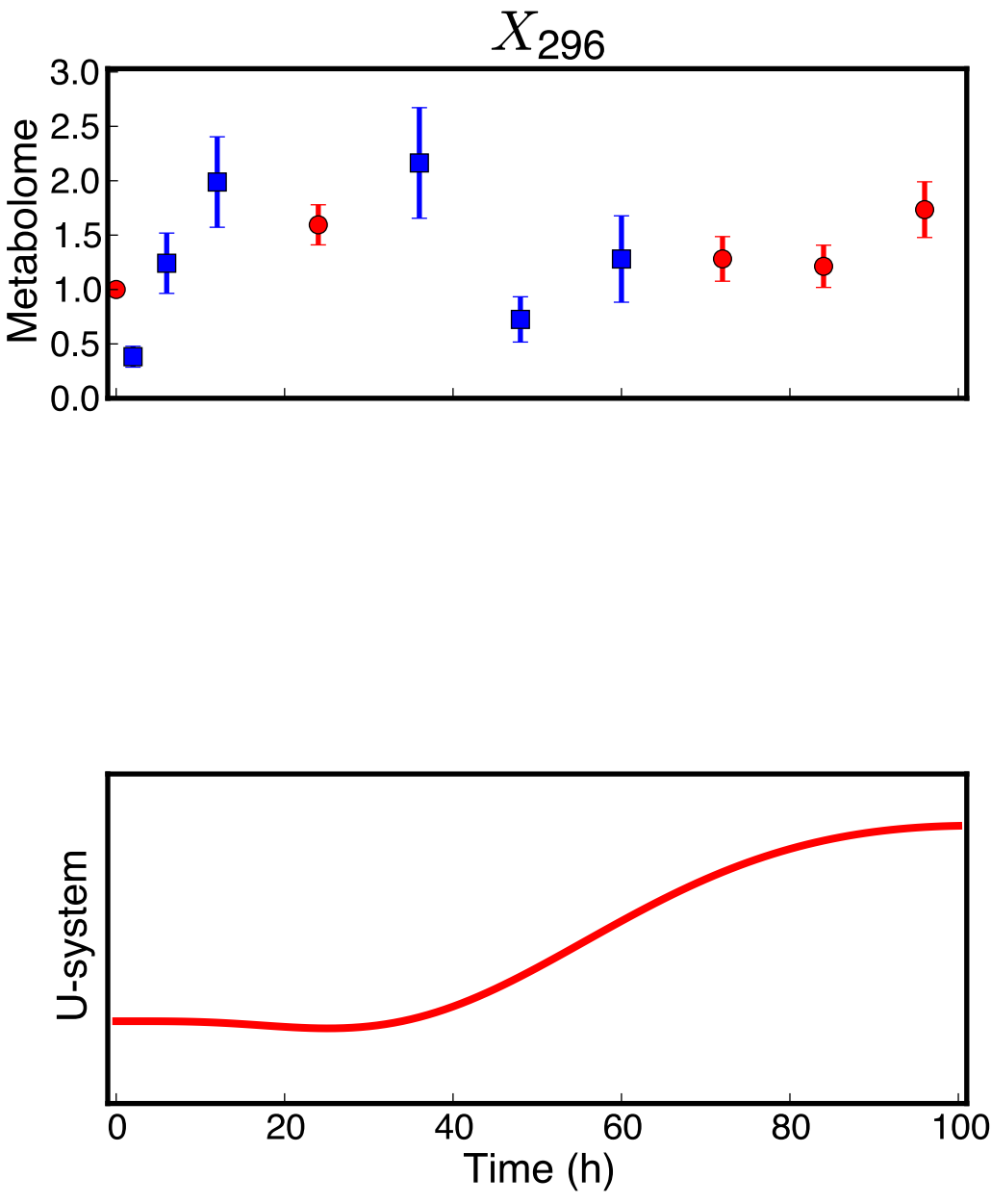
60
80
100
Time (h)


X_{296}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
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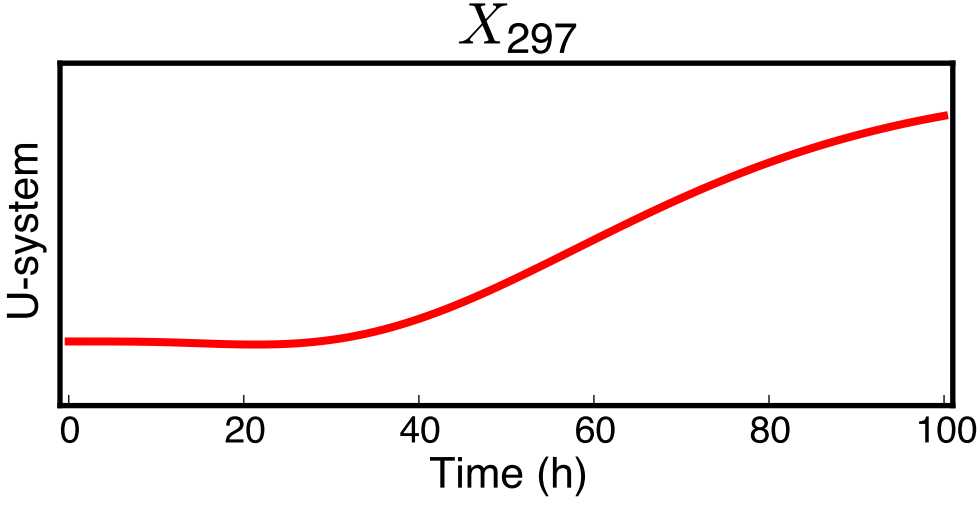
60
80
100
Time (h)


X_{297}
U-system
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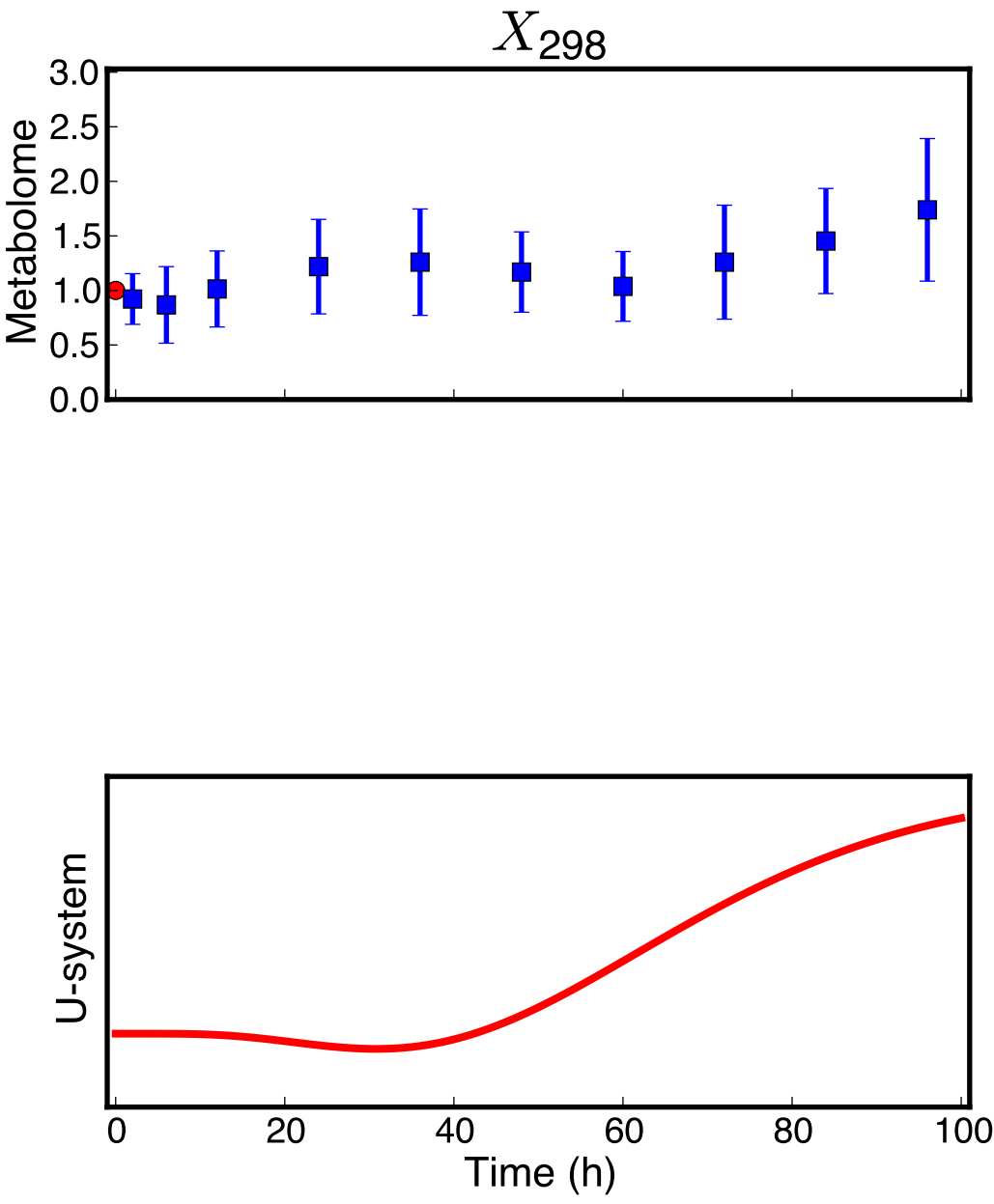
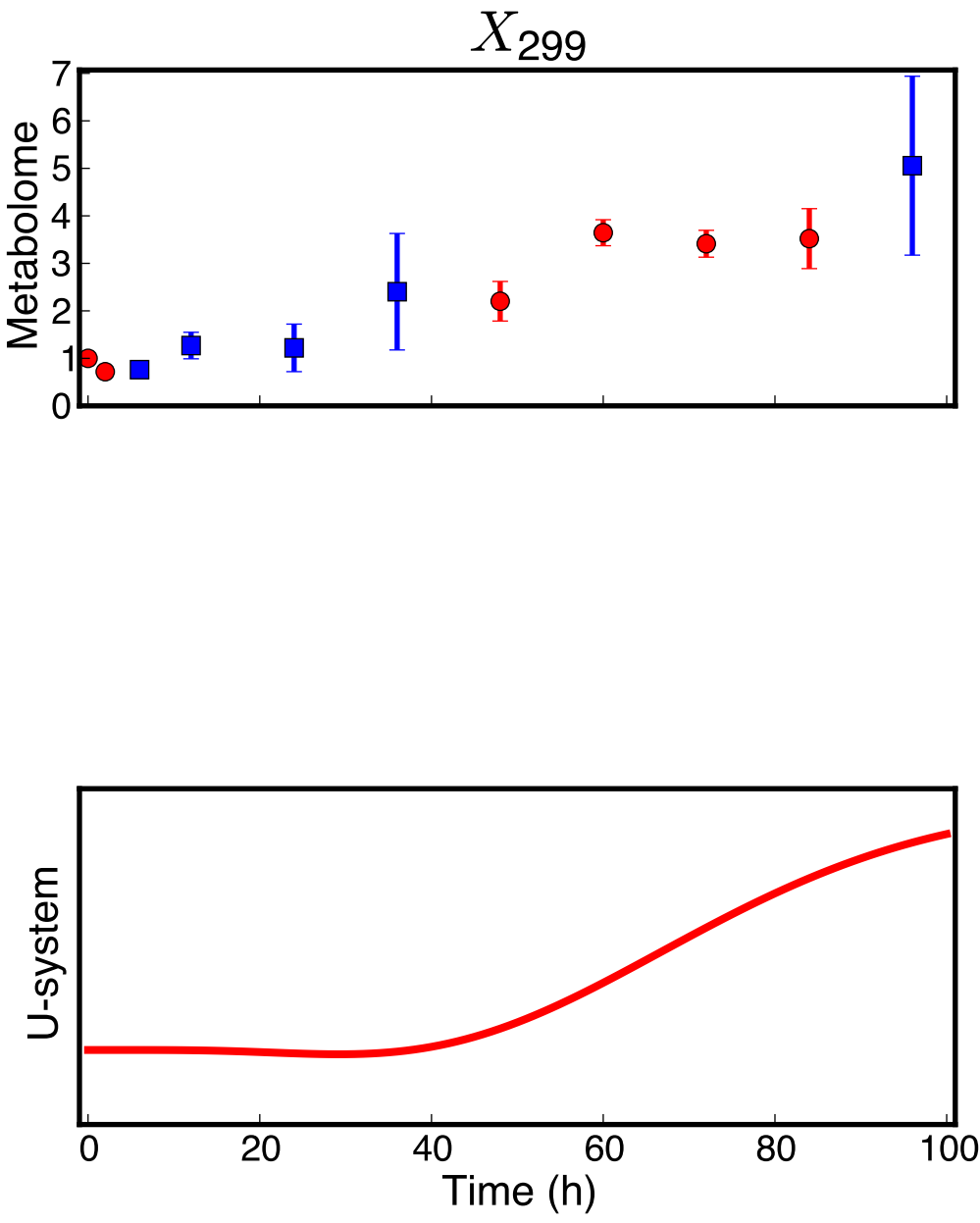
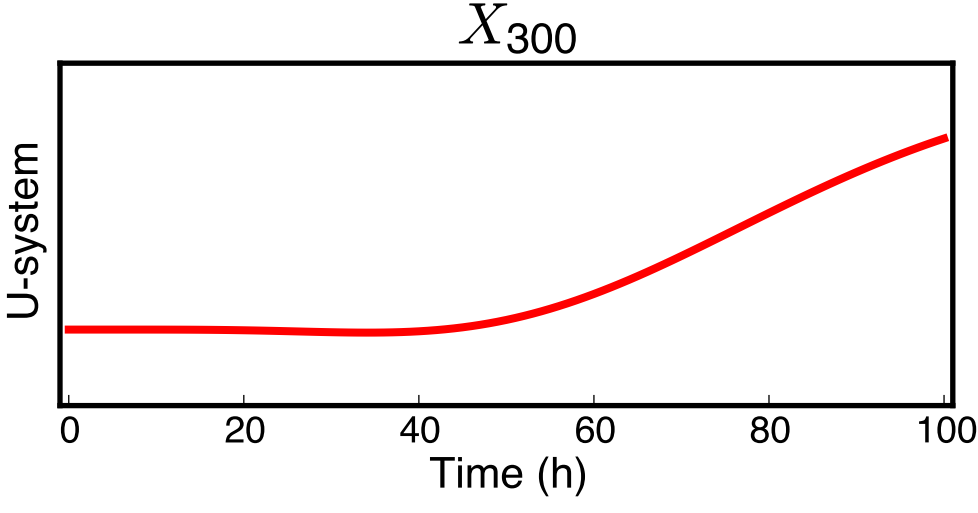
60
80
100
Time (h)


X_{298}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{299}
Metabolome
0
1
2
3
4
5
6
7
U-system
0
20
40
60
80
100
Time (h)


X_{300}
U-system
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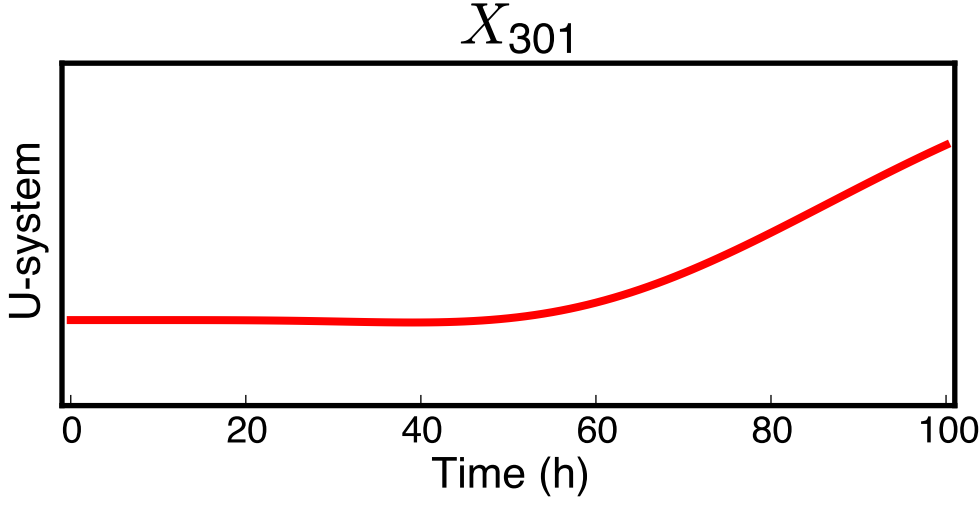
60
80
100
Time (h)


X_{301}
U-system
0
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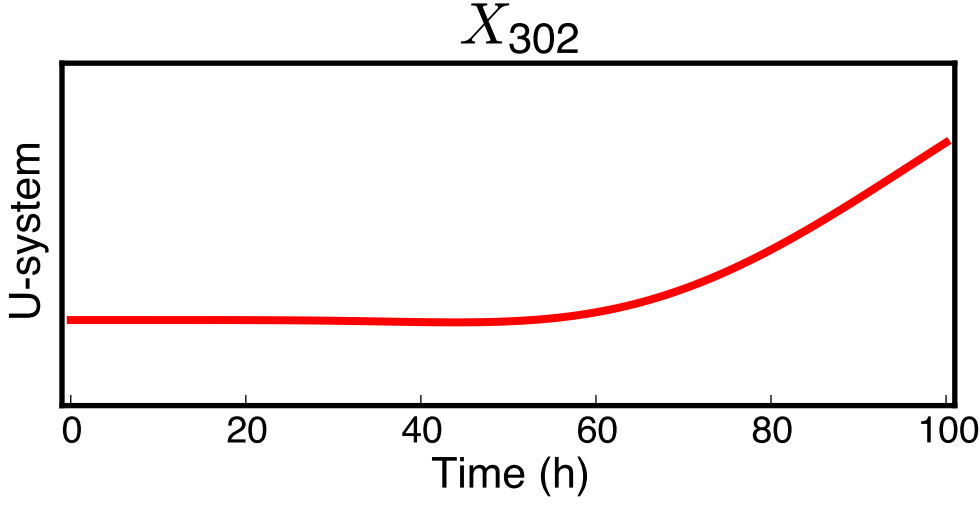
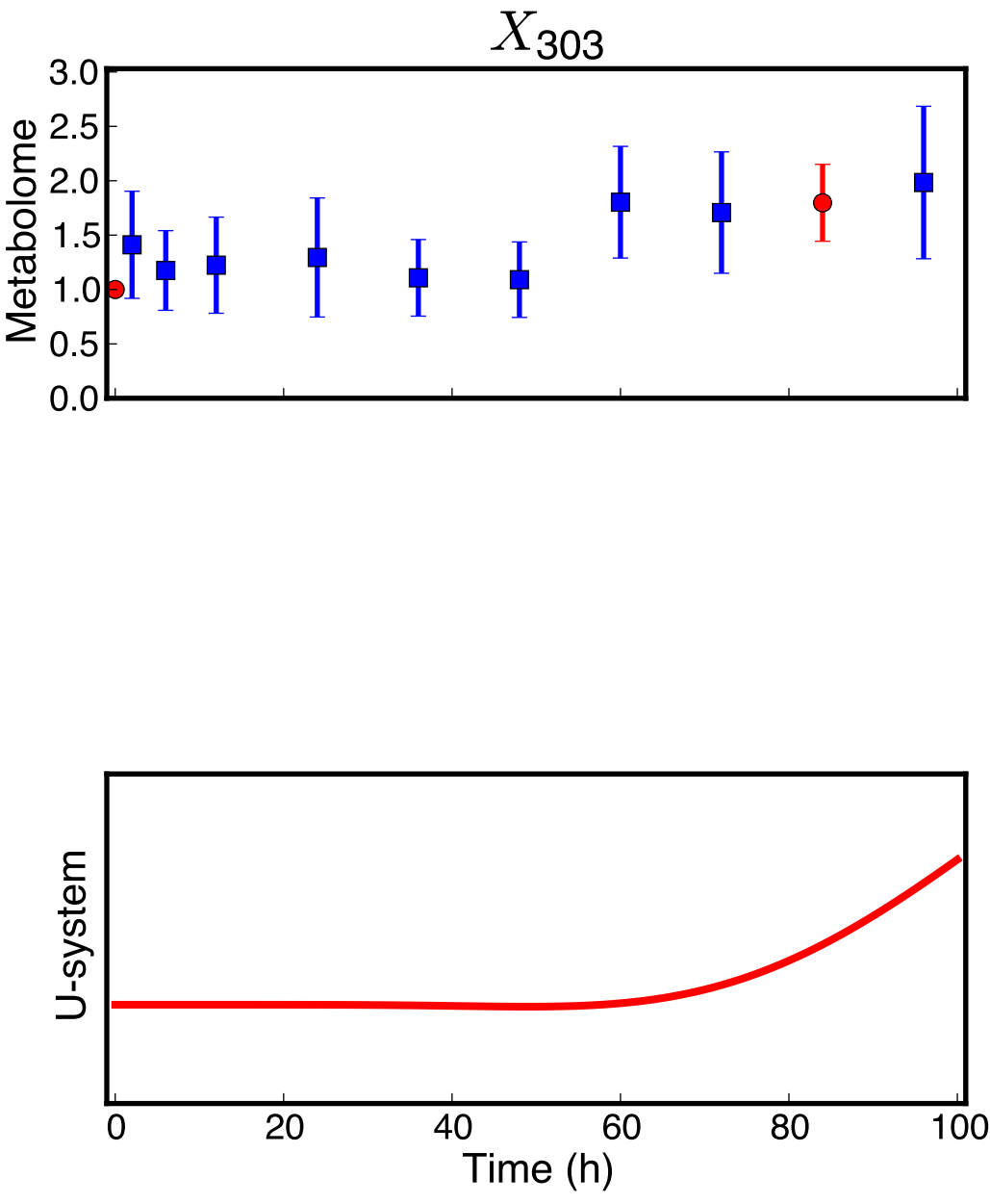
40
60
80
100
Time (h)


X_{302}
U-system
0
20
40
60
80
100
Time (h)


X_{303}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
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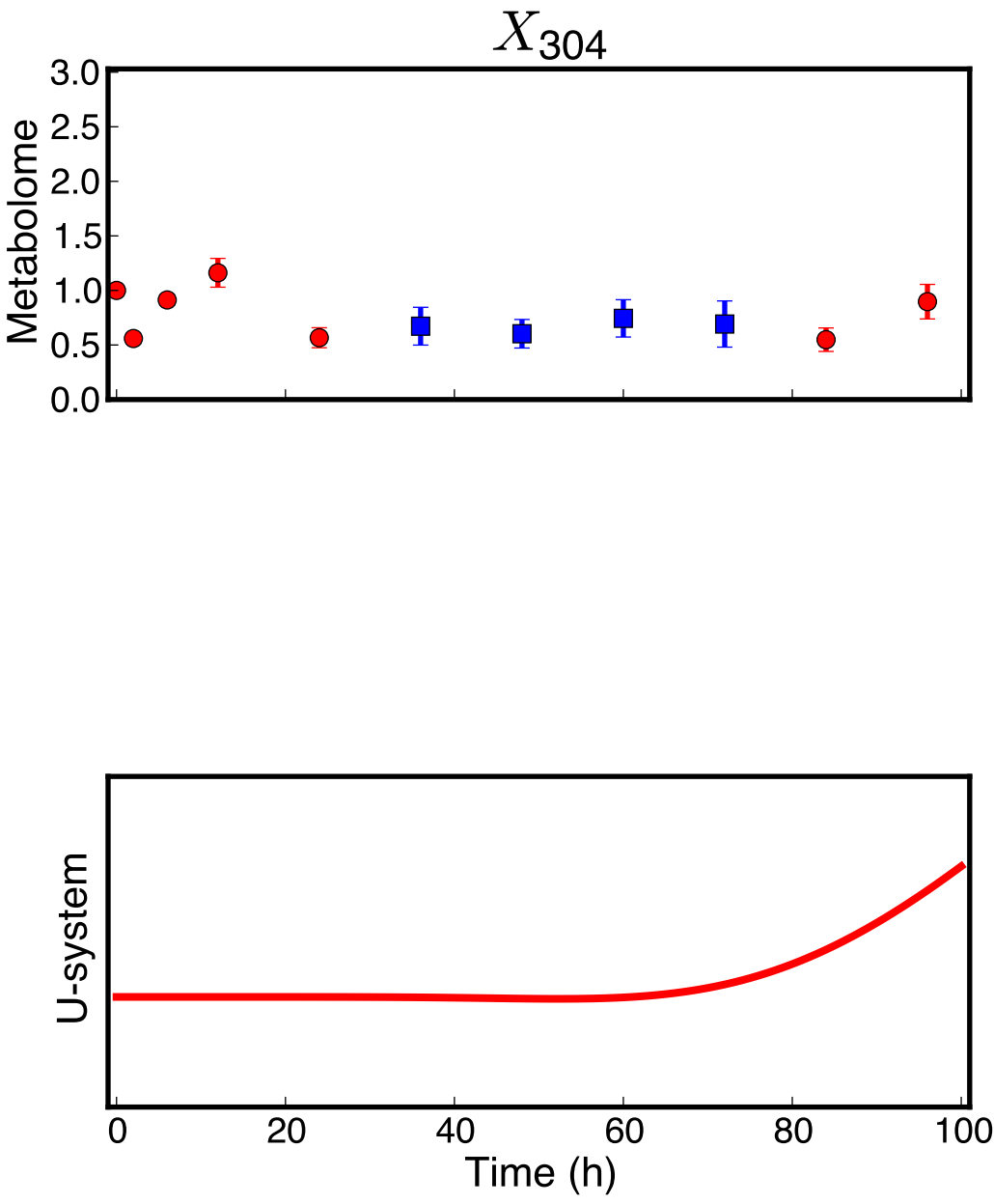
80
100
Time (h)


X_{304}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
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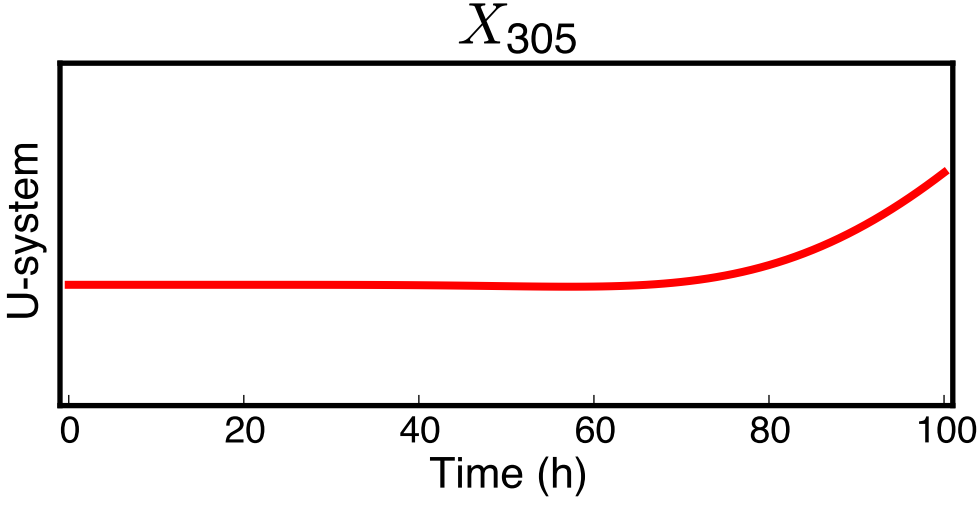
80
100
Time (h)


X_{305}
U-system
0
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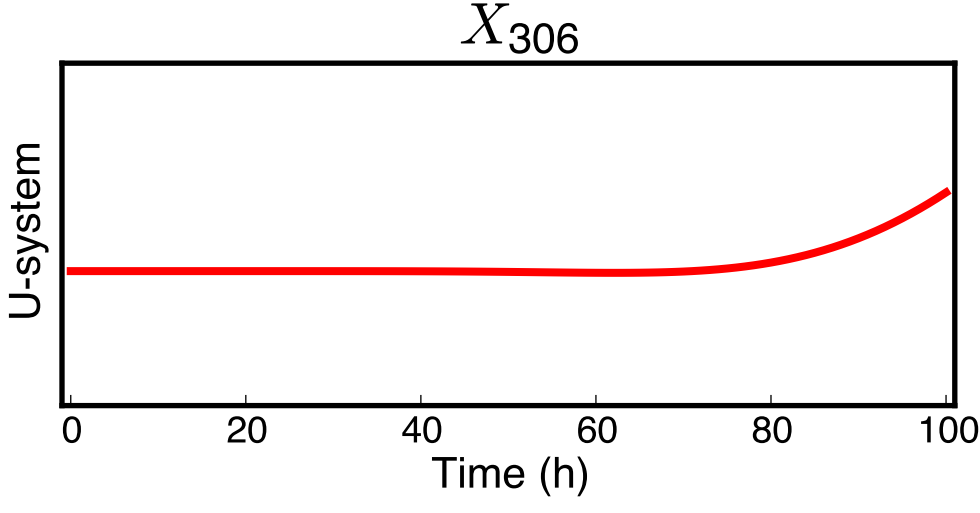
40
60
80
100
Time (h)


X_{306}
U-system
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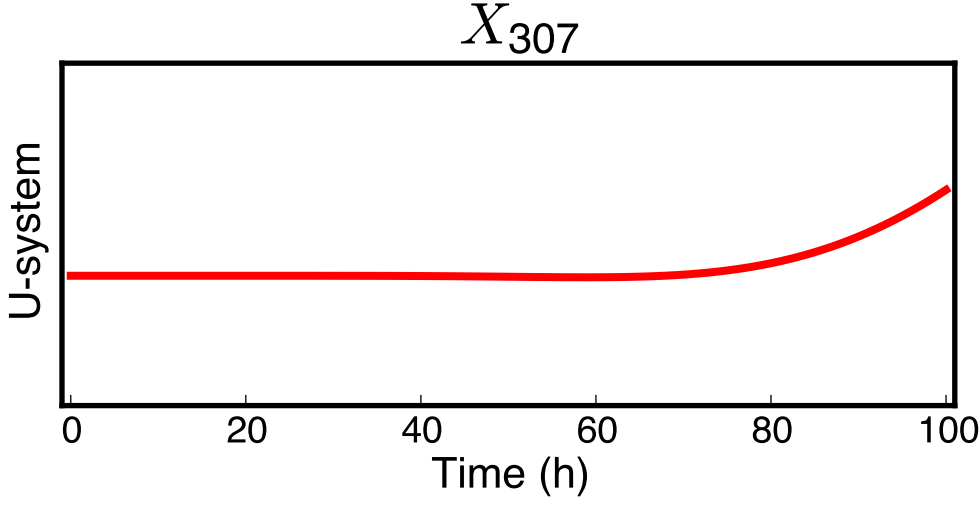
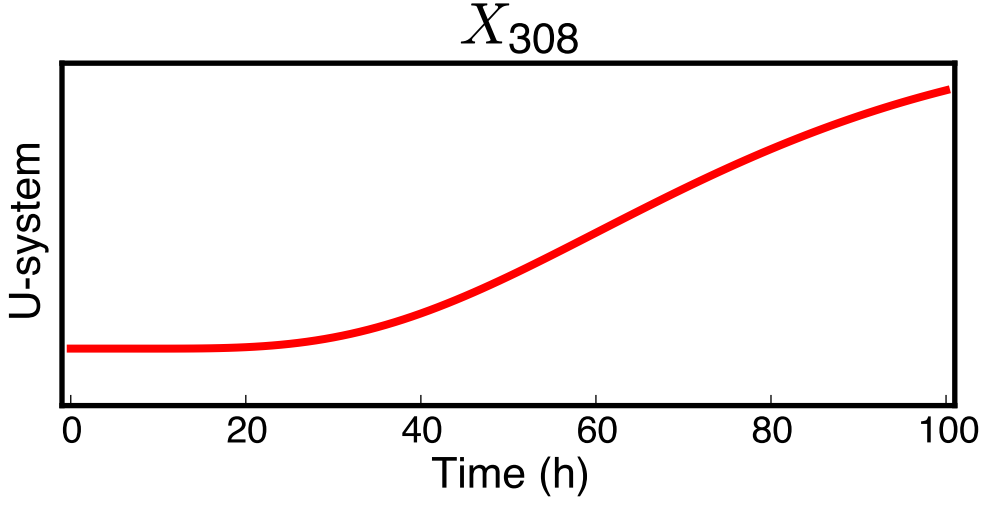
60
80
100
Time (h)


X_{307}
U-system
0
20
40
60
80
100
Time (h)


X_{308}
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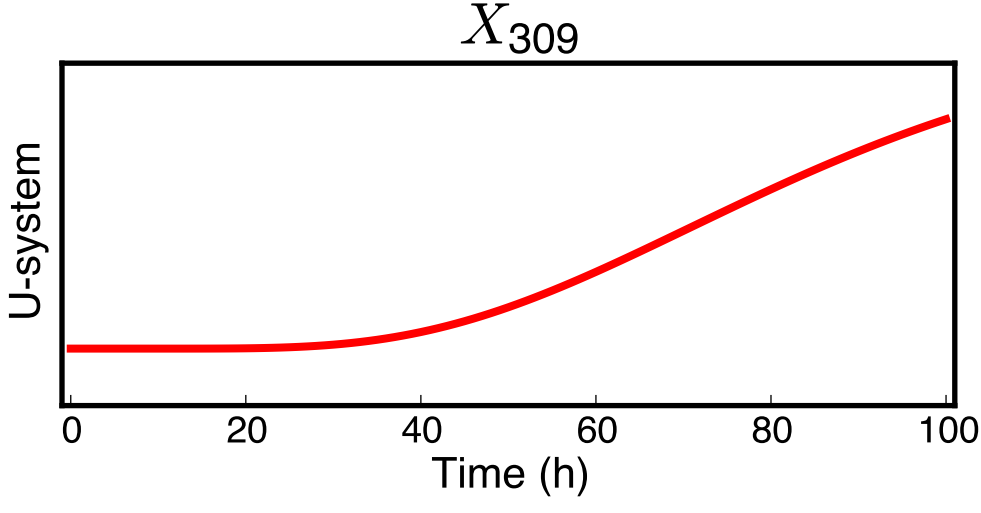
Time (h)


X_{309}
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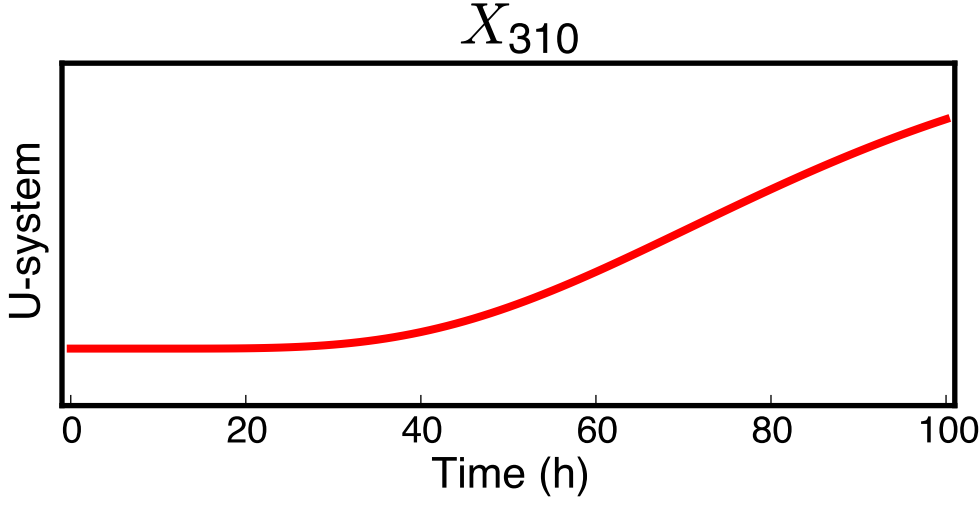
Time (h)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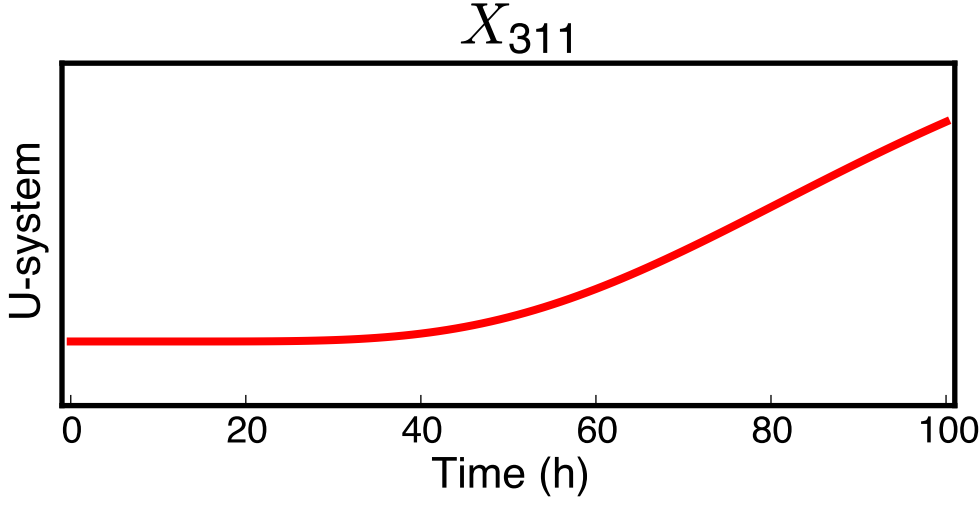
Time (h)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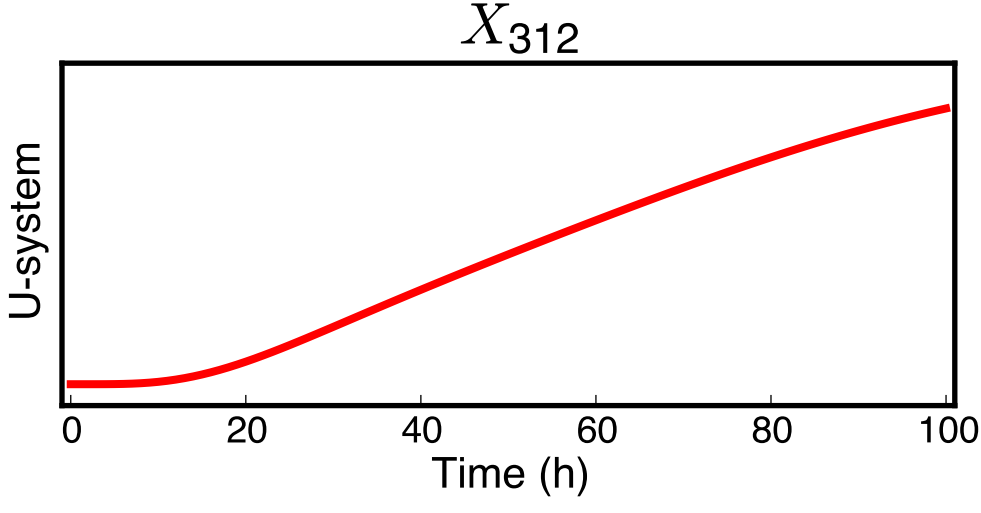
Time (h)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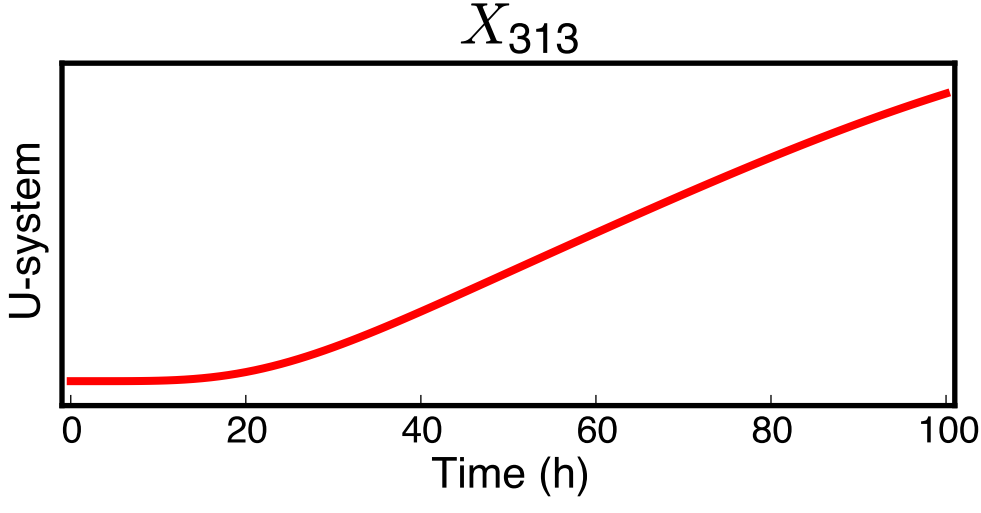
Time (h)


X_{313}
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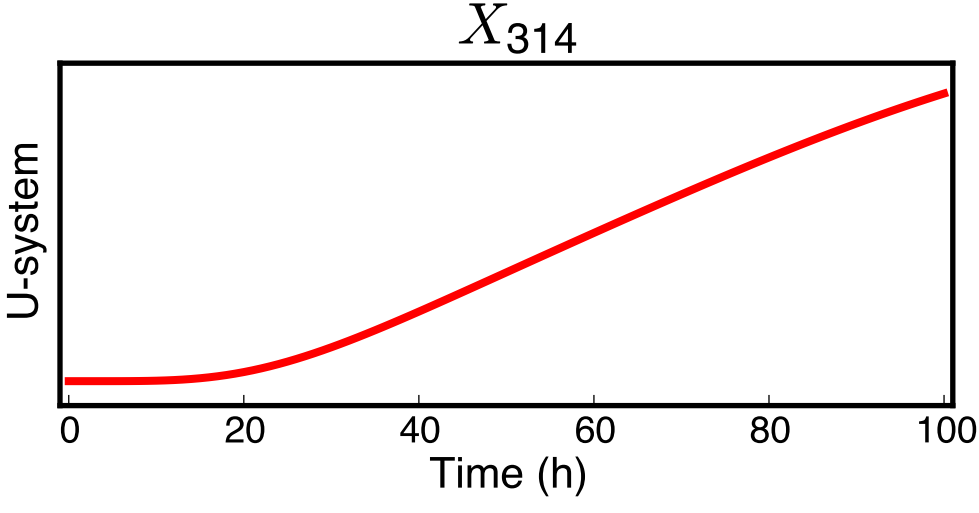
Time (h)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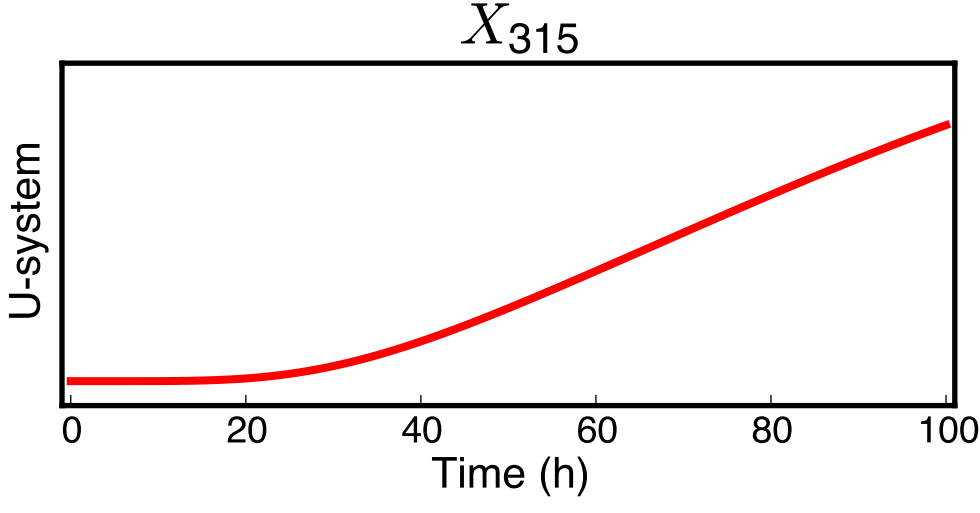
Time (h)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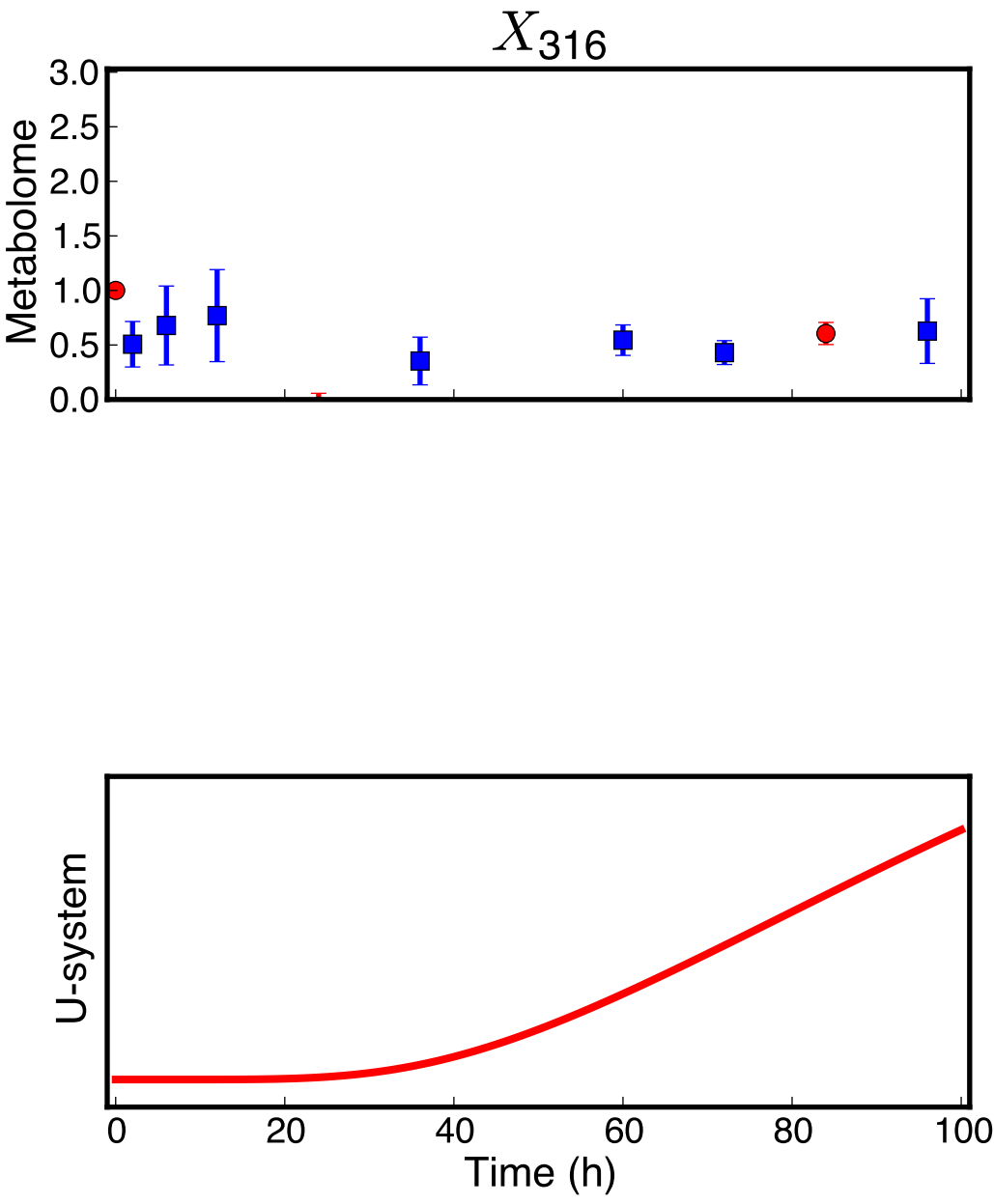
Time (h)


X_{316}
Metabolome
3.0
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0.0
U-system
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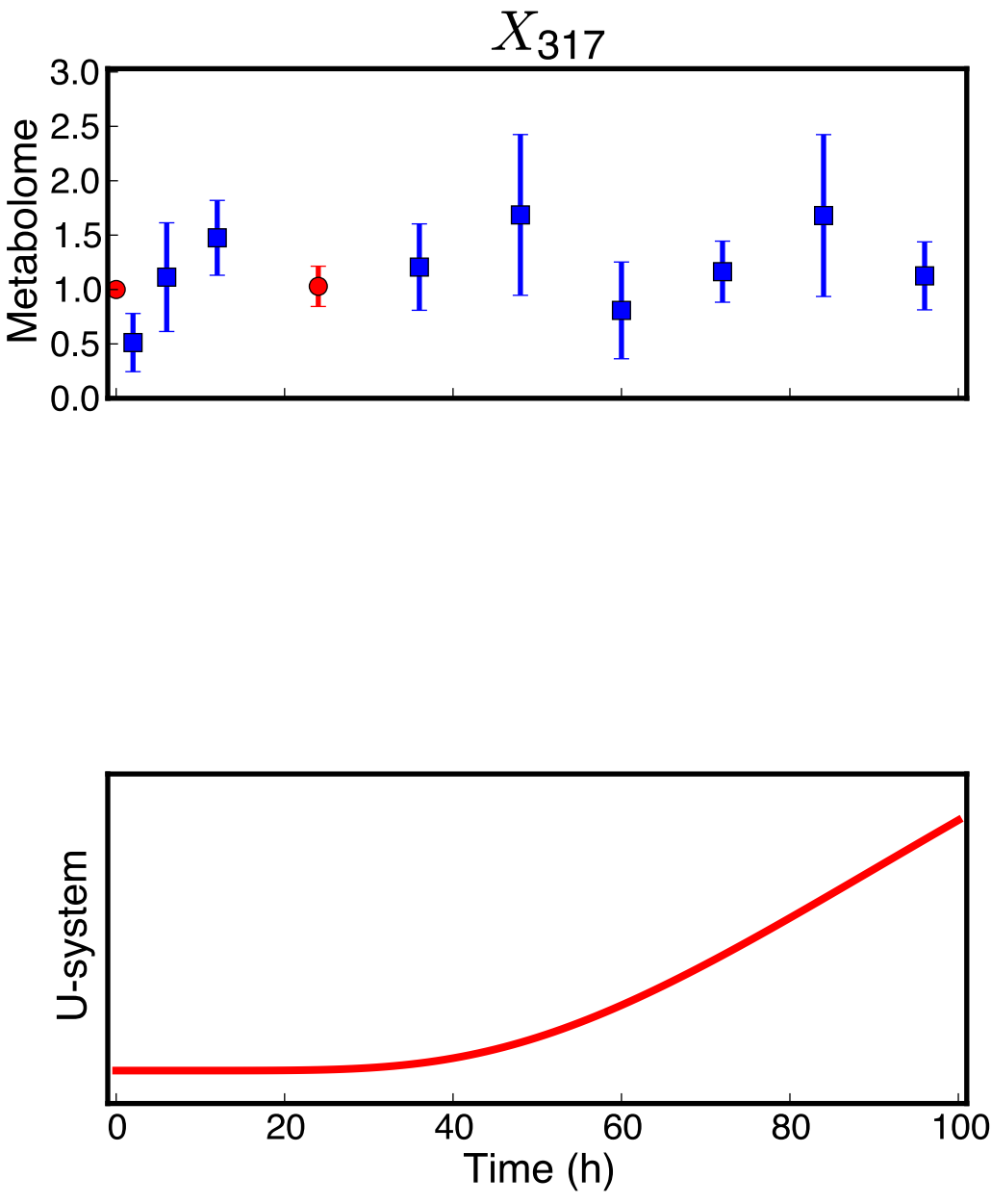
80
100
Time (h)


X_{317}
Metabolome
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1.5
1.0
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U-system
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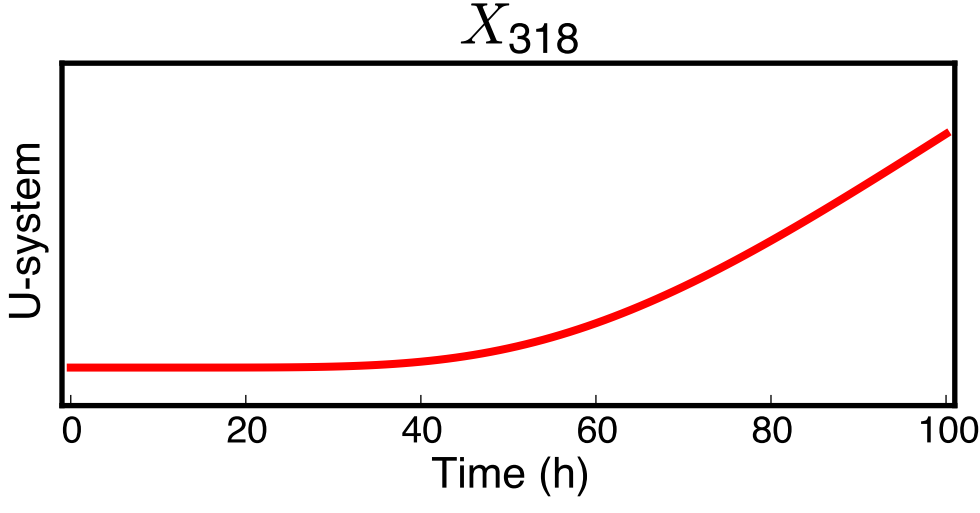
80
100
Time (h)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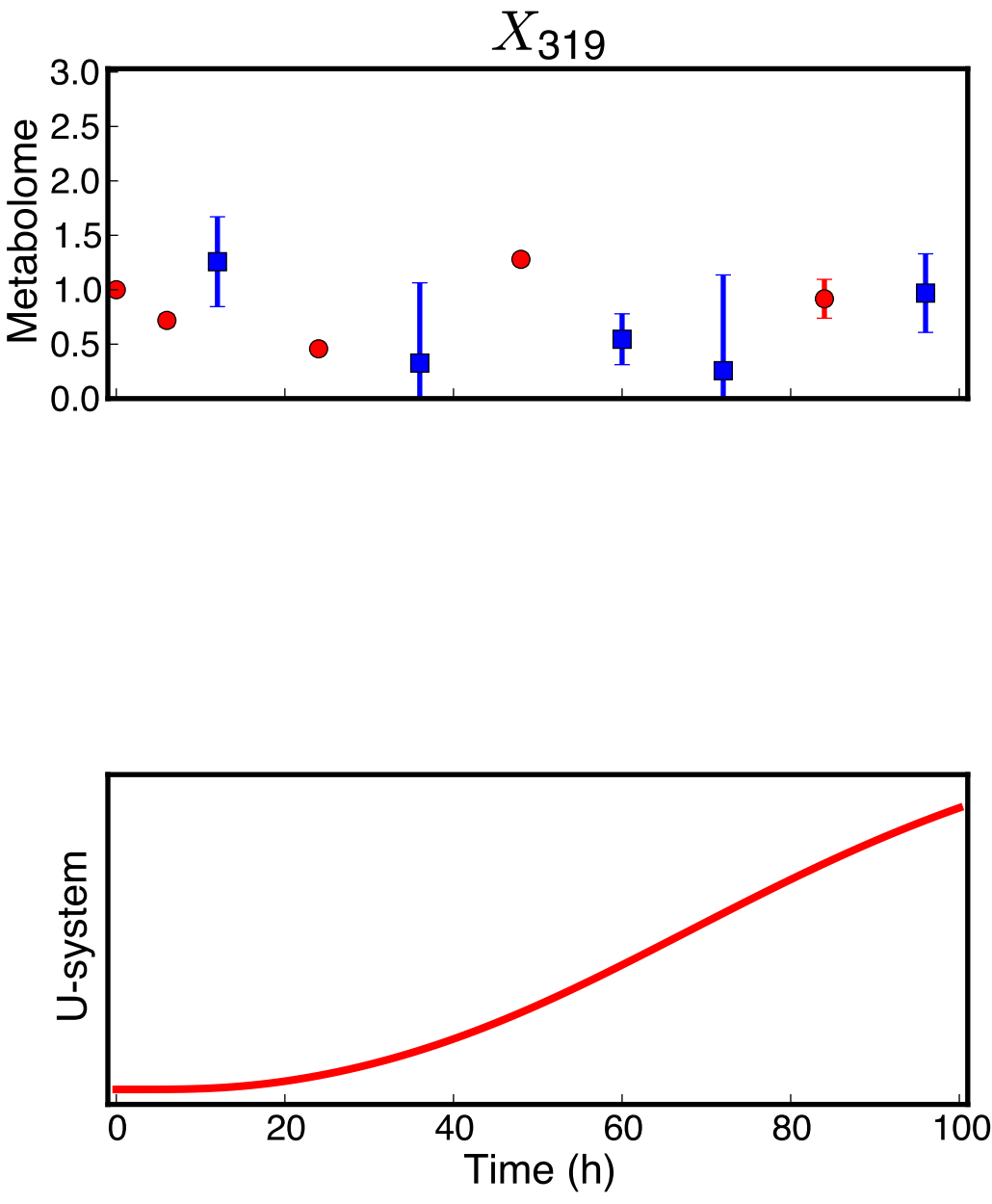
Time (h)


X_{319}
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1.5
1.0
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U-system
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80
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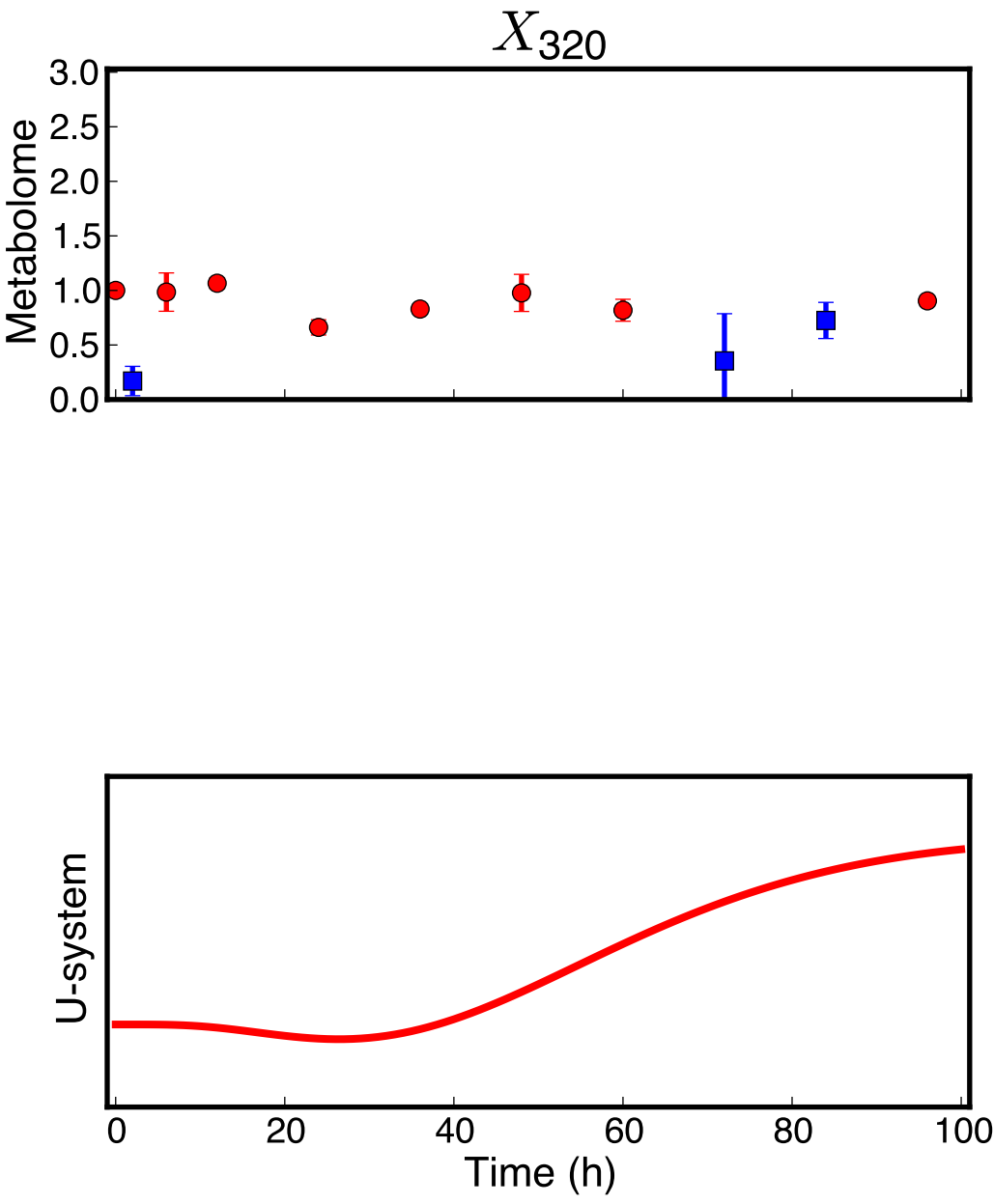
Time (h)


X_{320}
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1.0
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U-system
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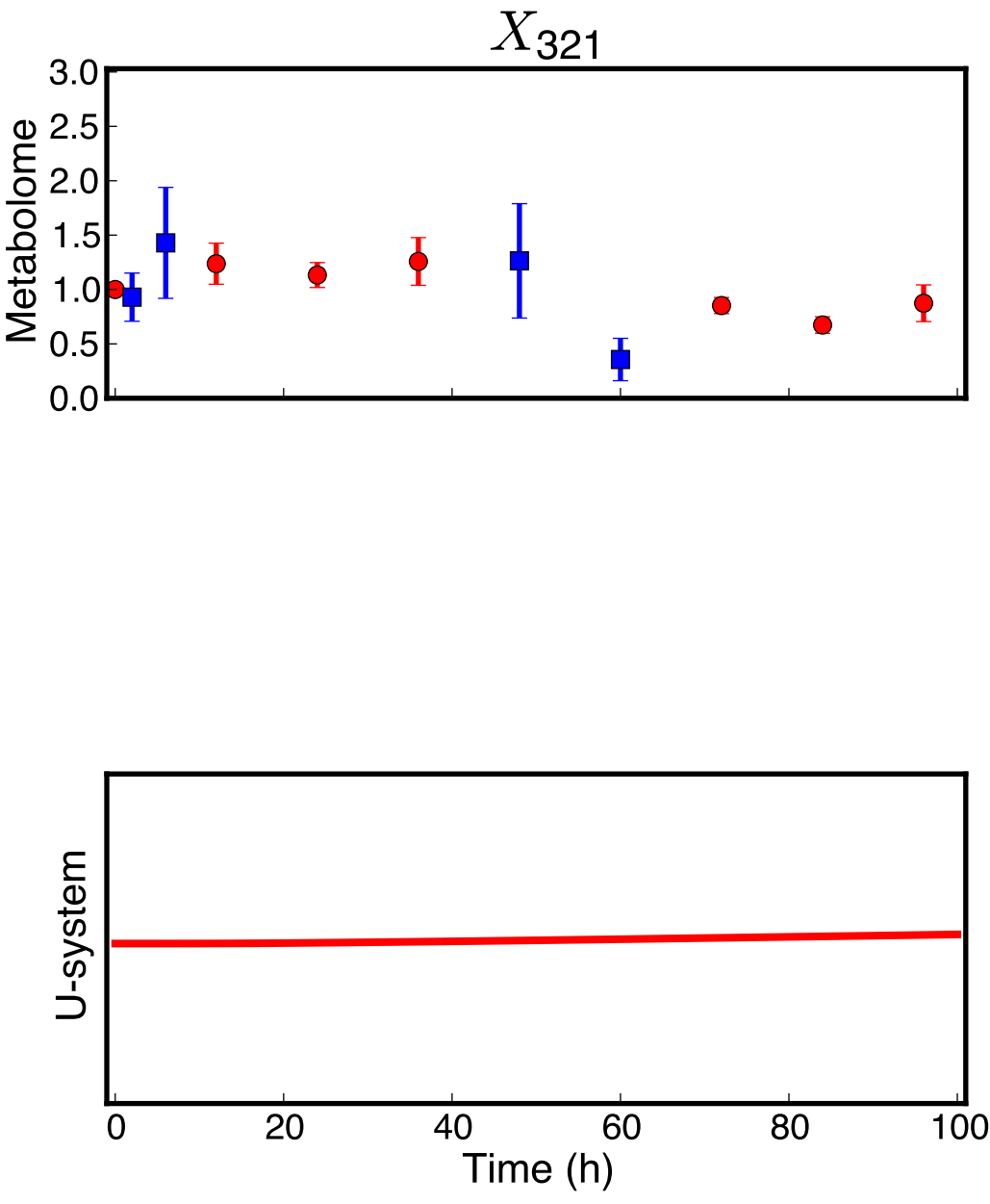
80
100
Time (h)


X_{321}
Metabolome
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1.0
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U-system
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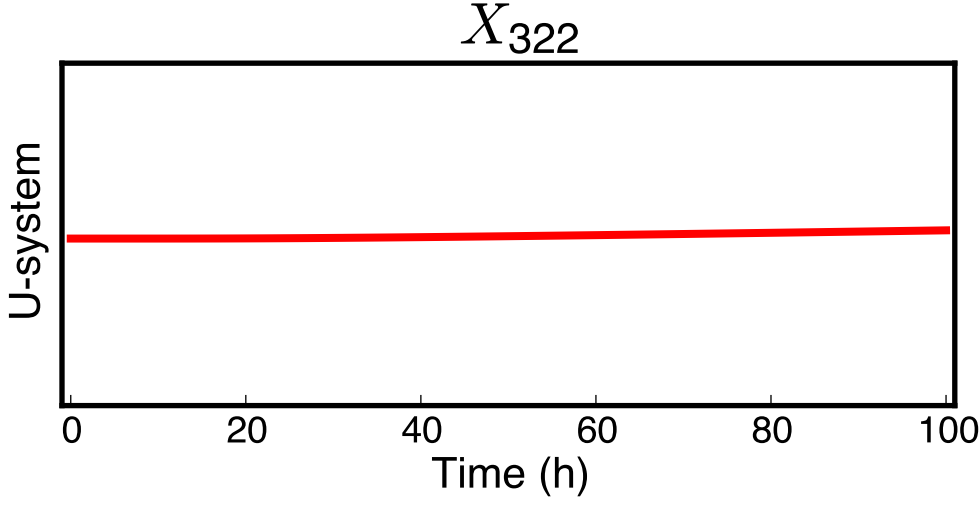
80
100
Time (h)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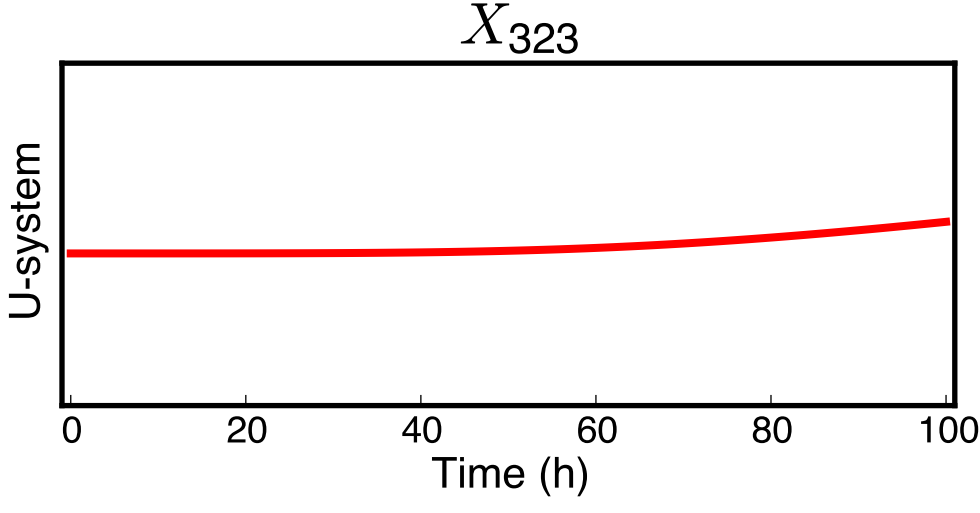
Time (h)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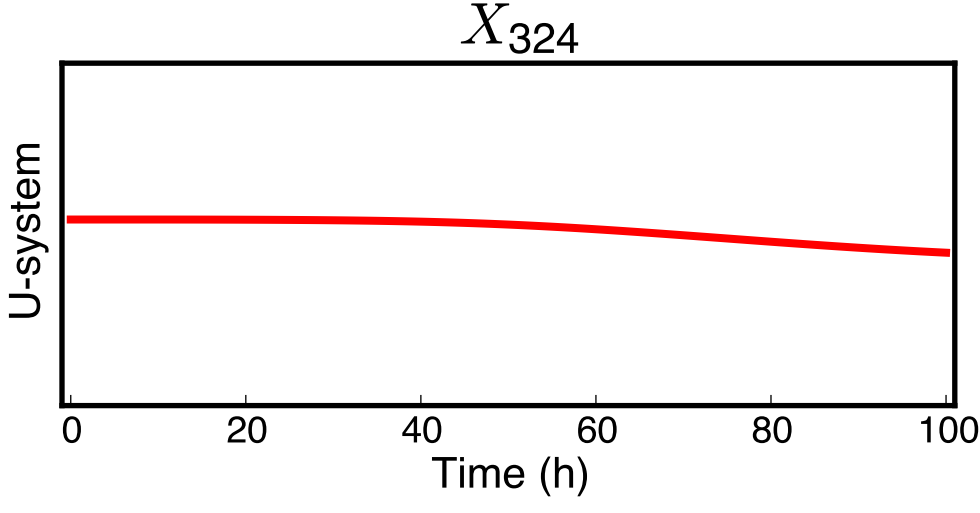
Time (h)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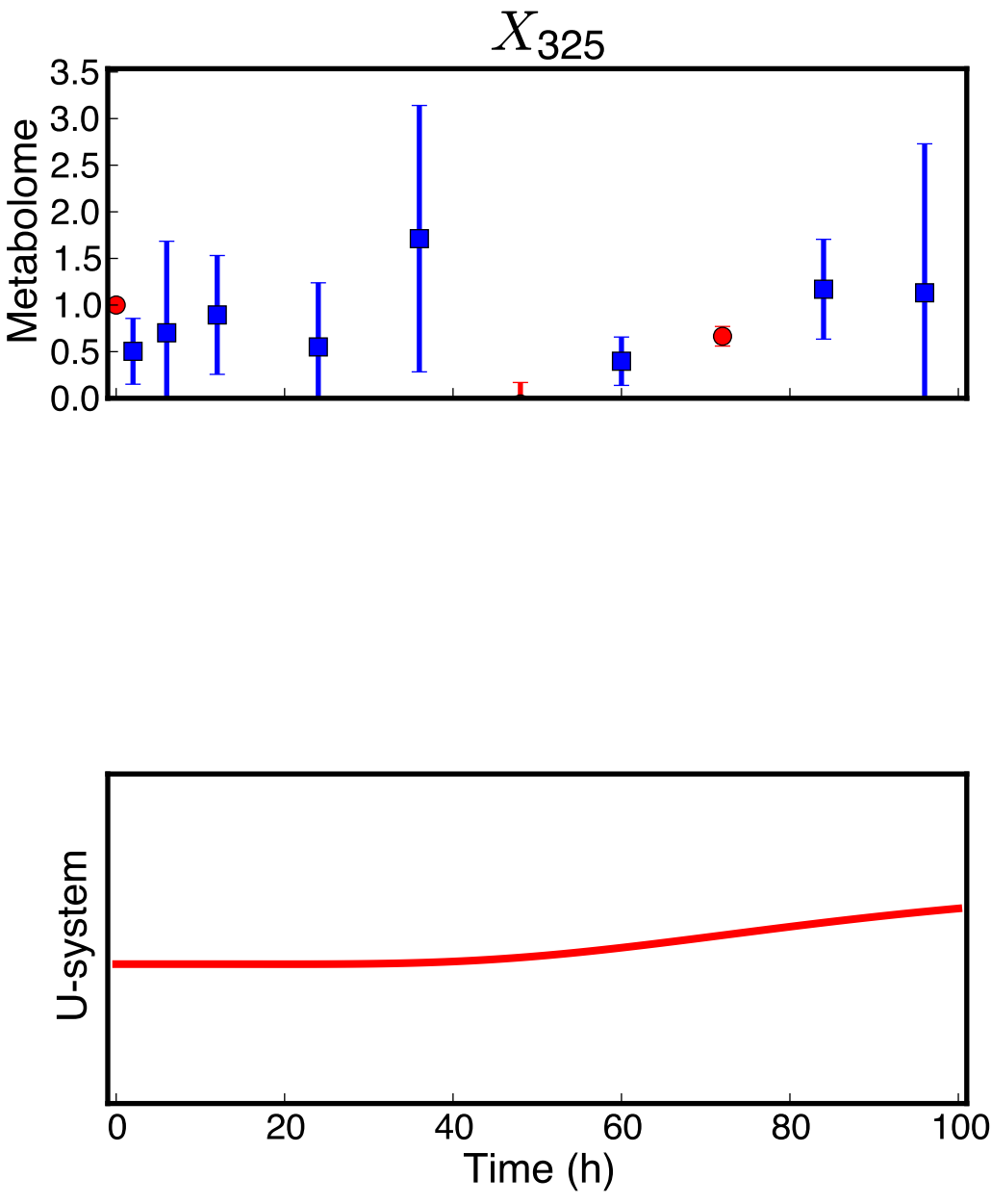
Time (h)


X_{325}
Metabolome
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U-system
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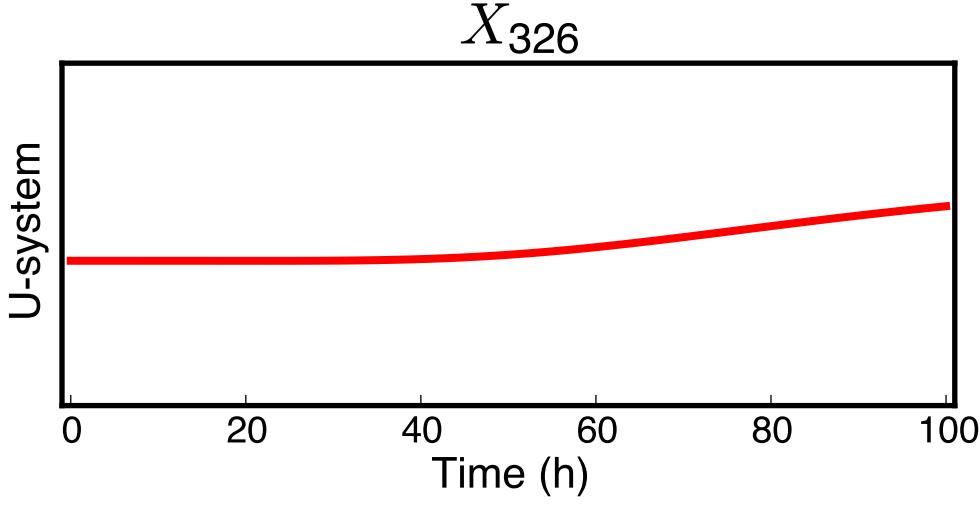
100
Time (h)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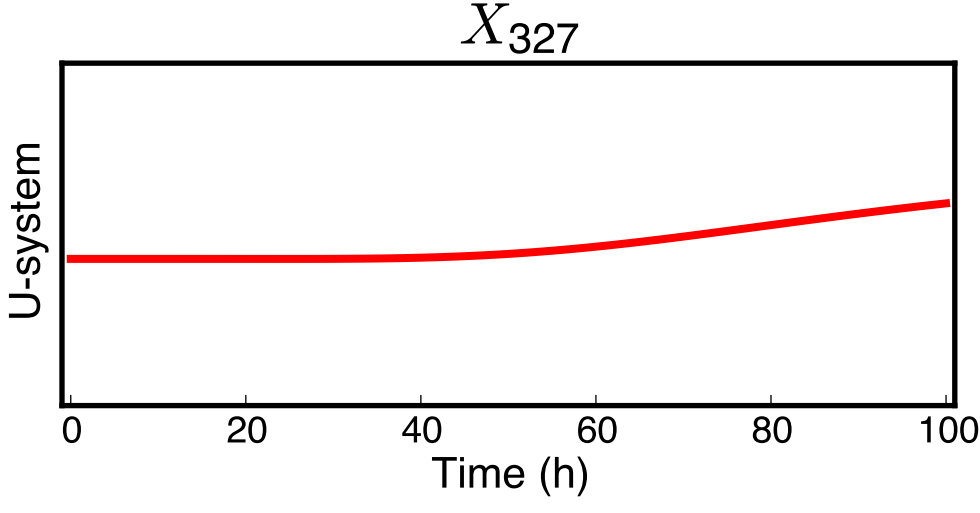
Time (h)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U-system
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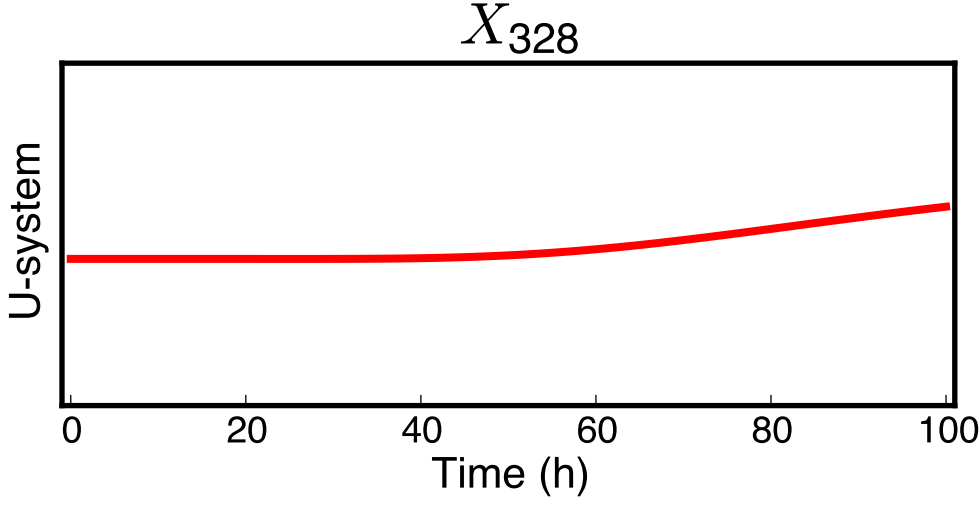
Time (h)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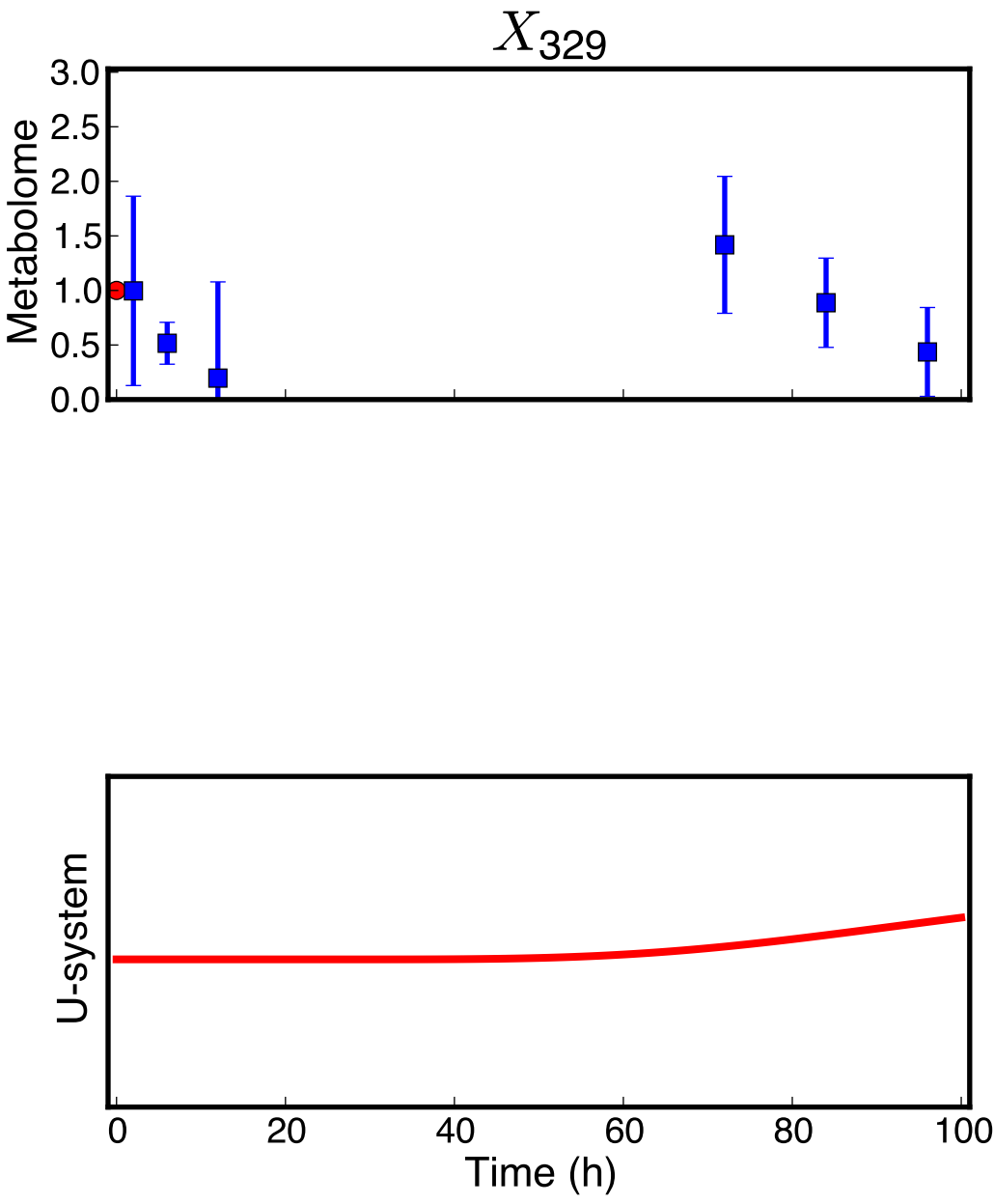
Time (h)


X_{329}
Metabolome
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1.5
1.0
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U-system
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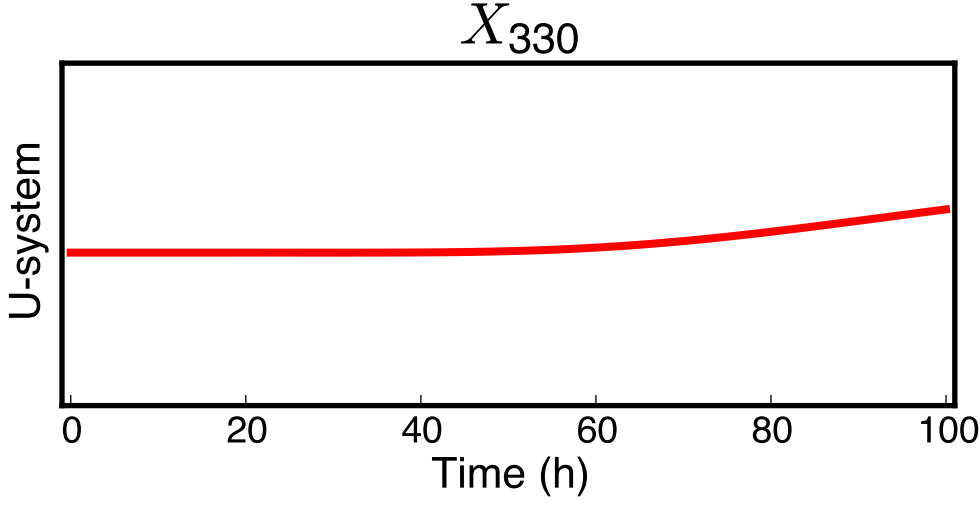
80
100
Time (h)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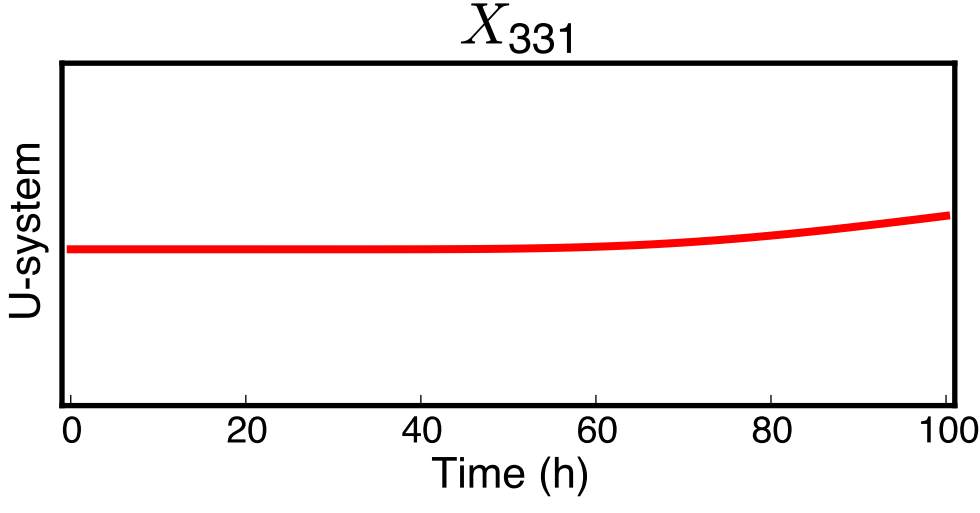
Time (h)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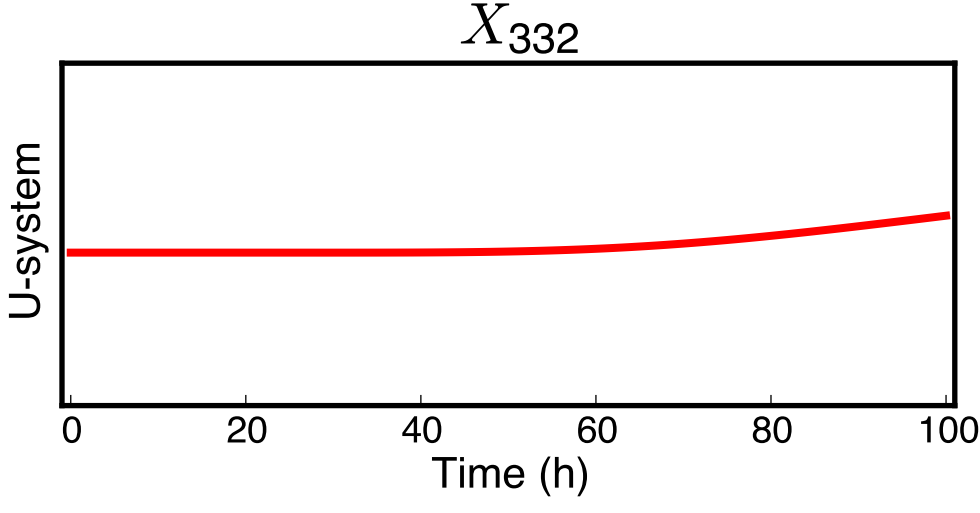
Time (h)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U-system
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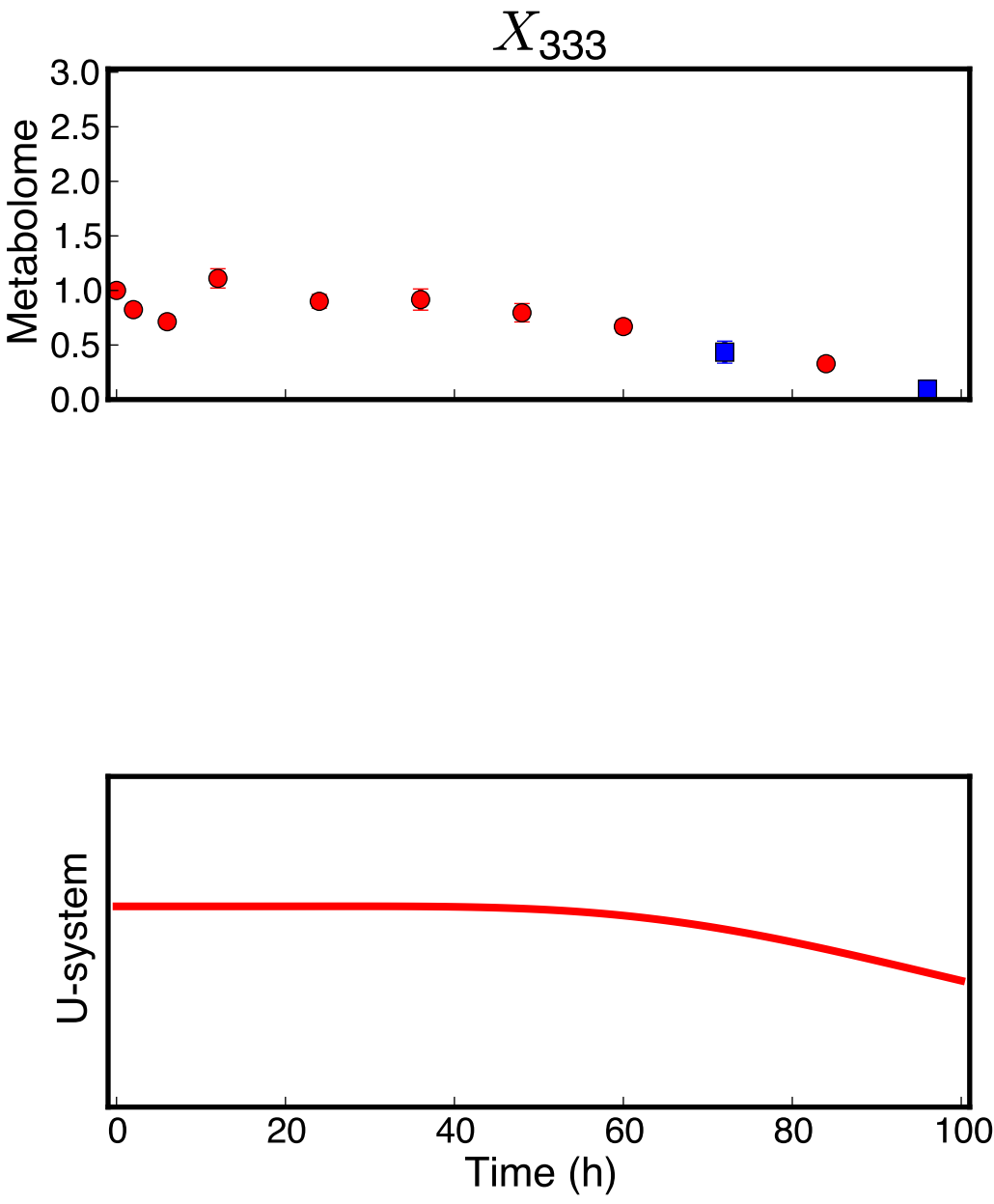
Time (h)


X_{333}
Metabolome
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U-system
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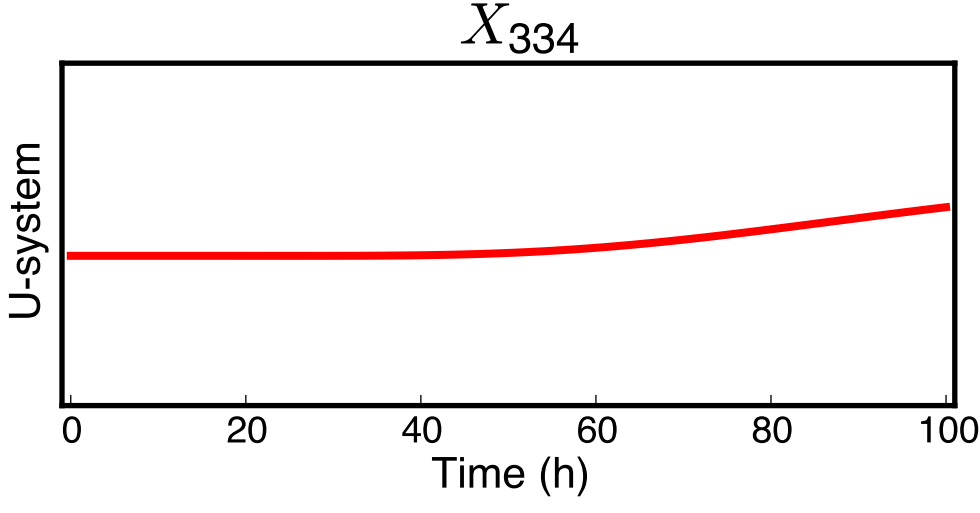
100
Time (h)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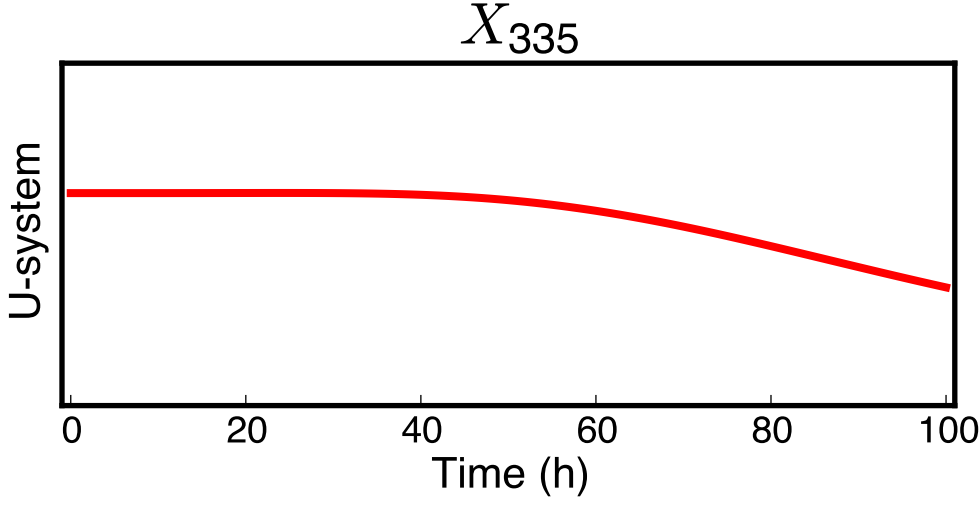
Time (h)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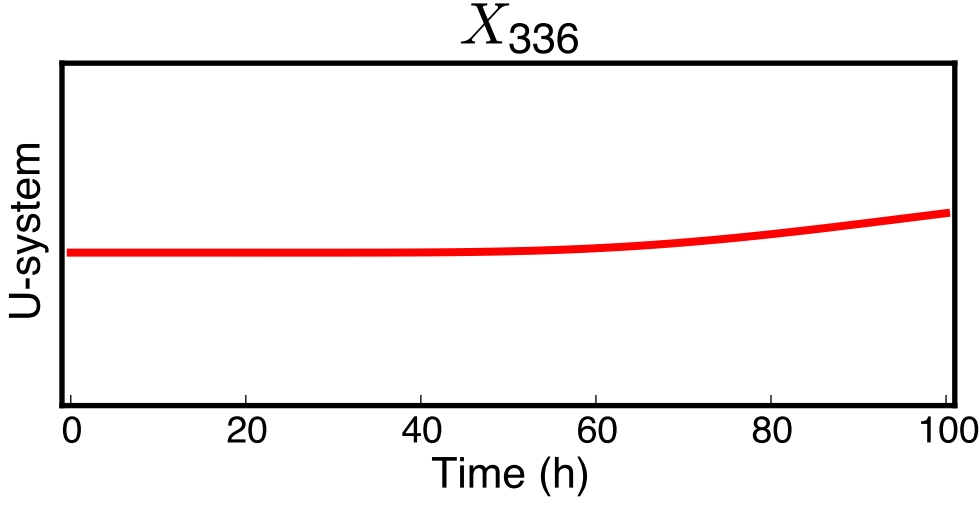
Time (h)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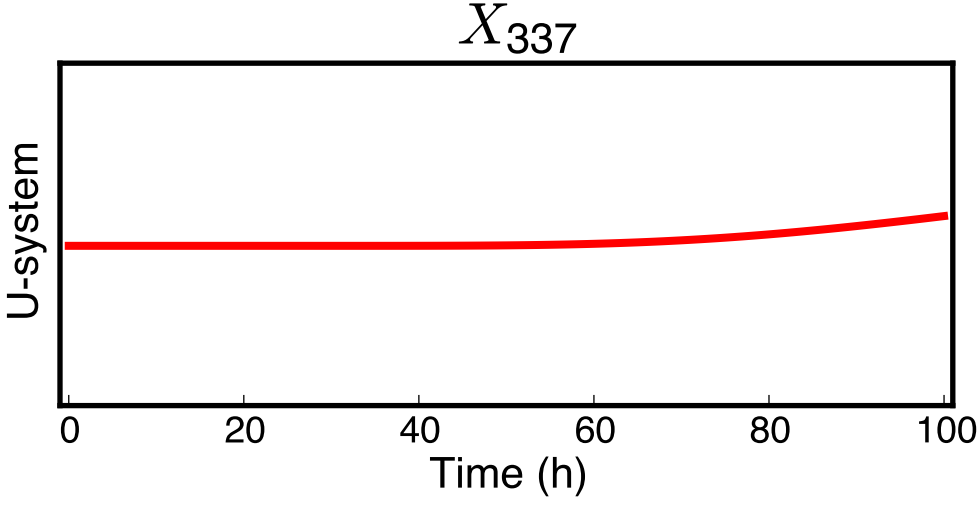
Time (h)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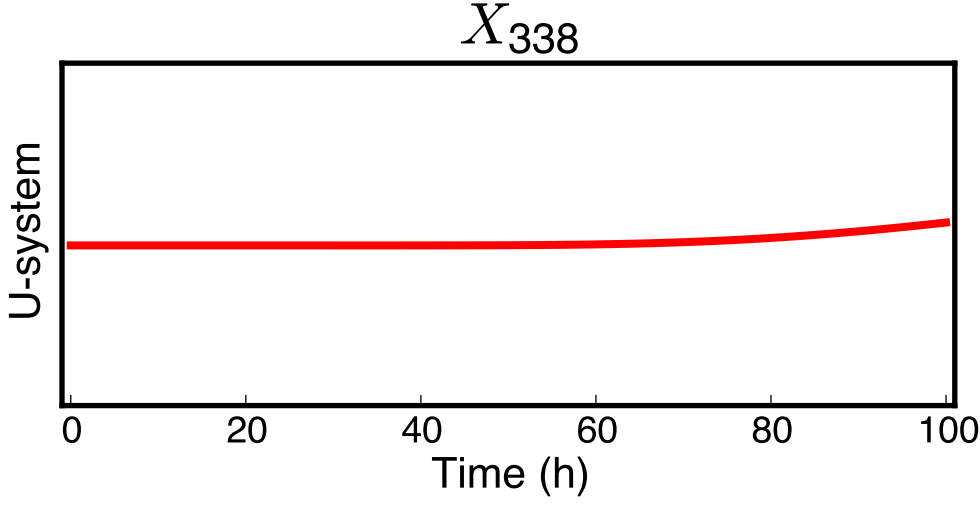
Time (h)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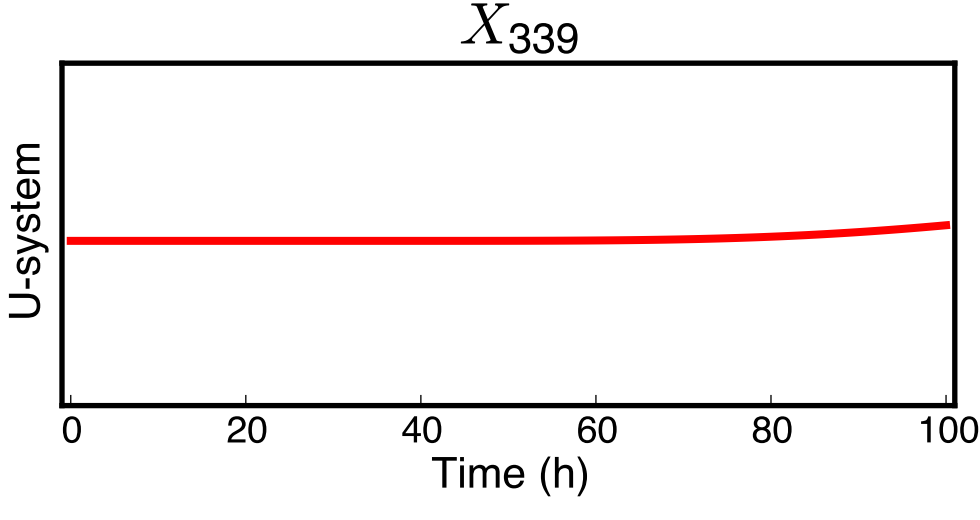
Time (h)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U-system
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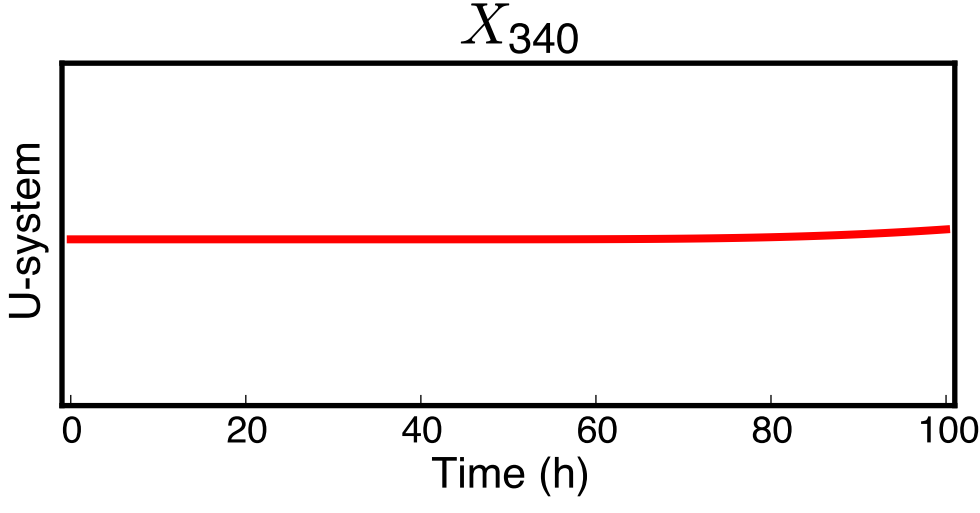
Time (h)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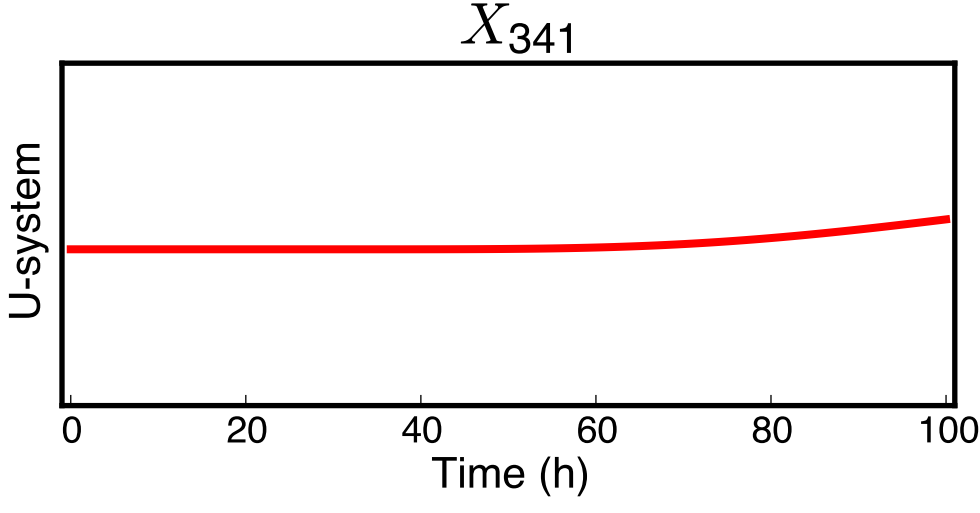
Time (h)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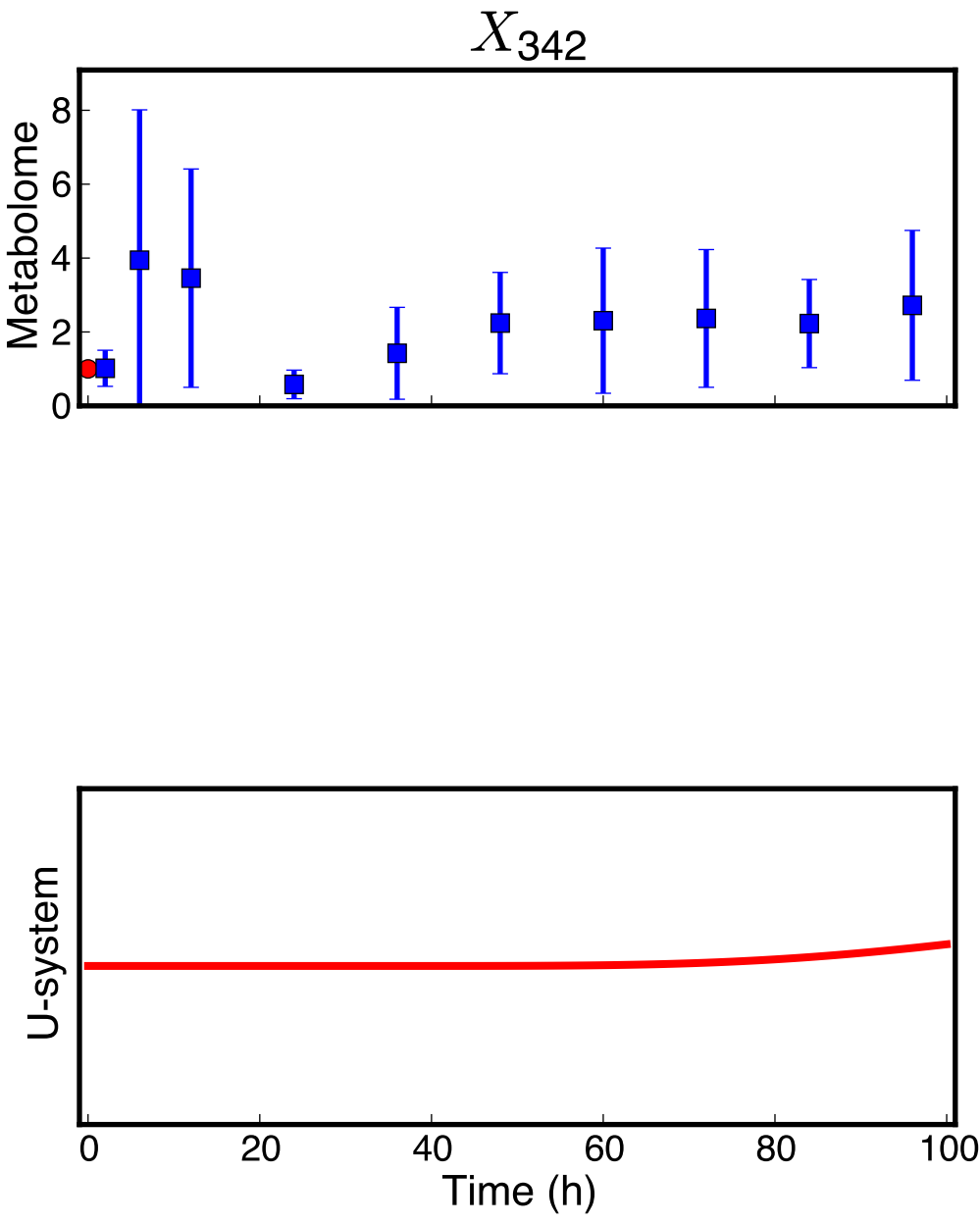
Time (h)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Metabolome
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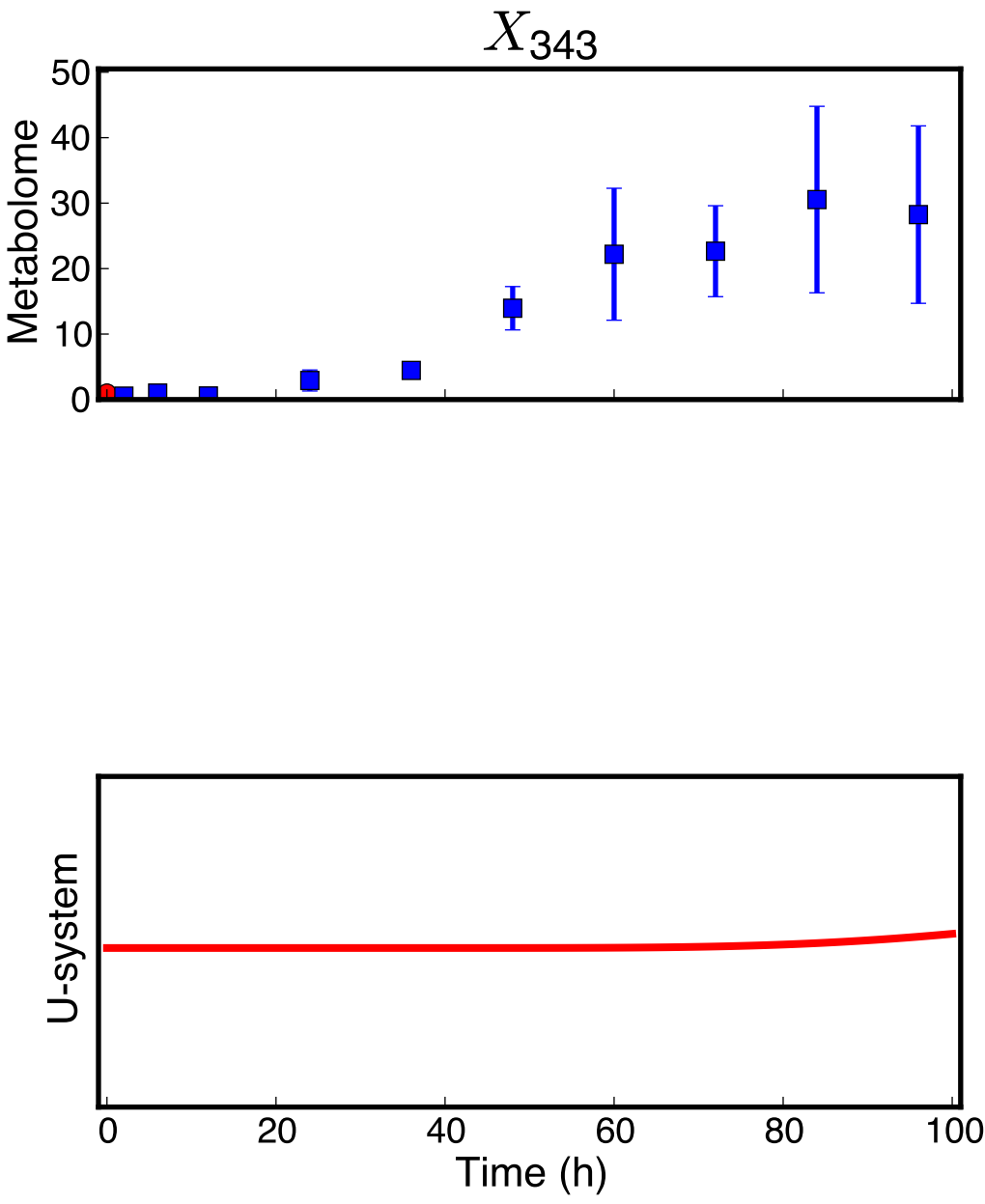
Time (h)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U-system
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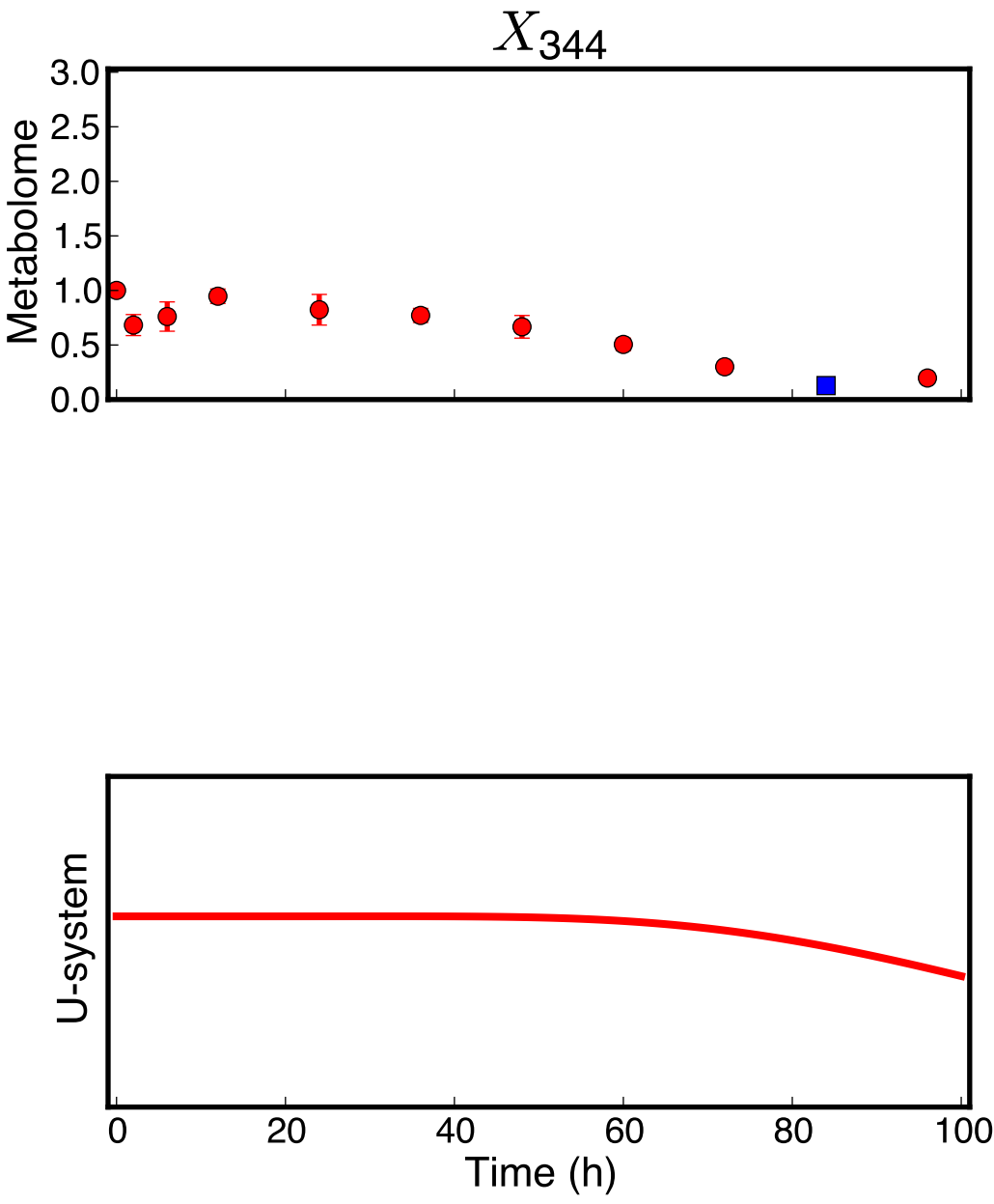
100
Time (h)


X_{344}
Metabolome
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U-system
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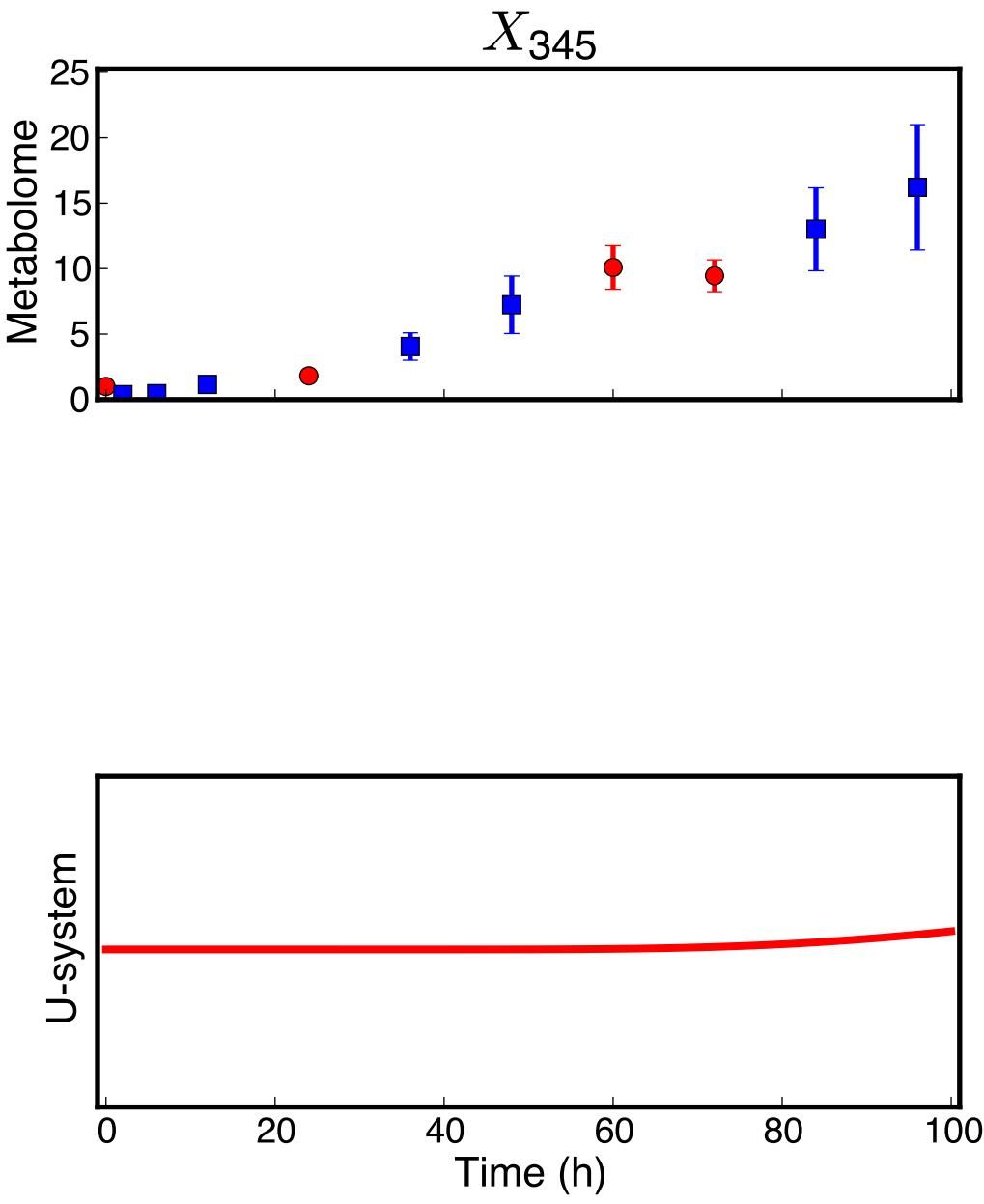
Time (h)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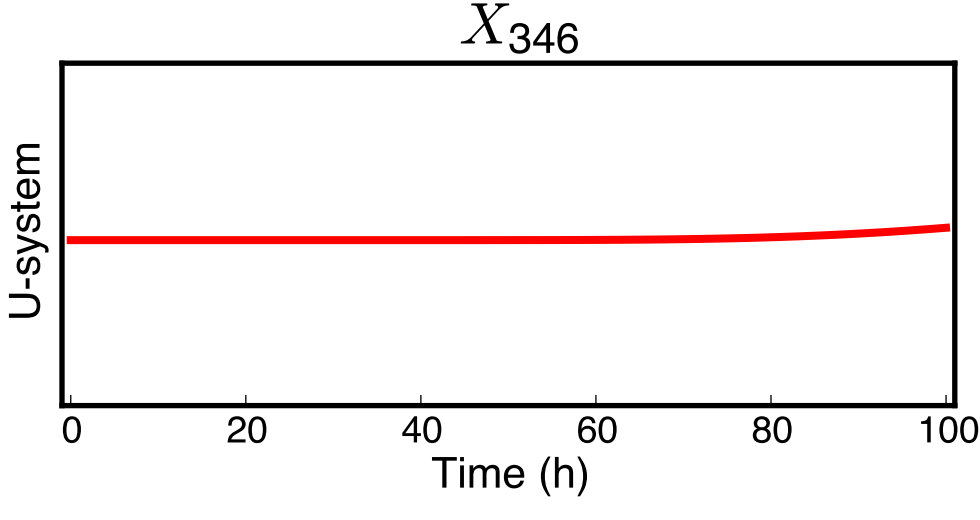
Time (h)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U-system
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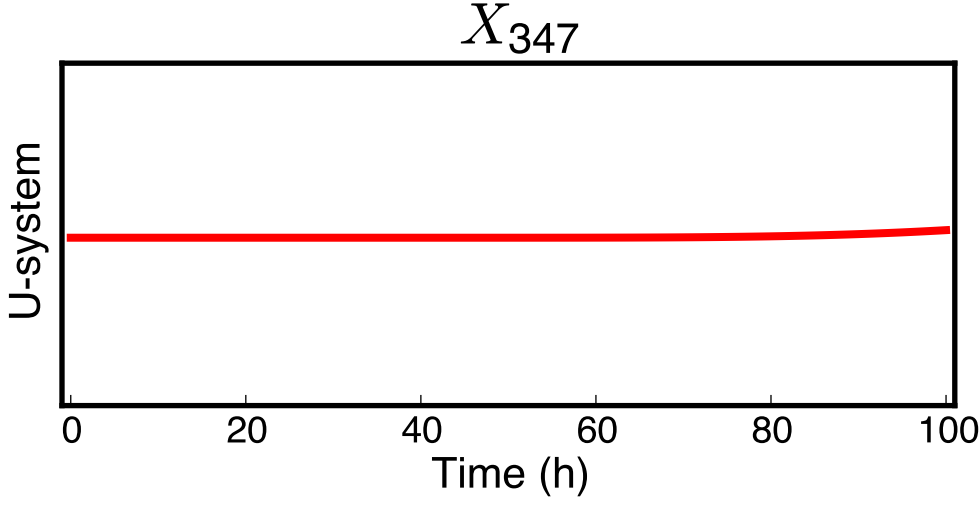
Time (h)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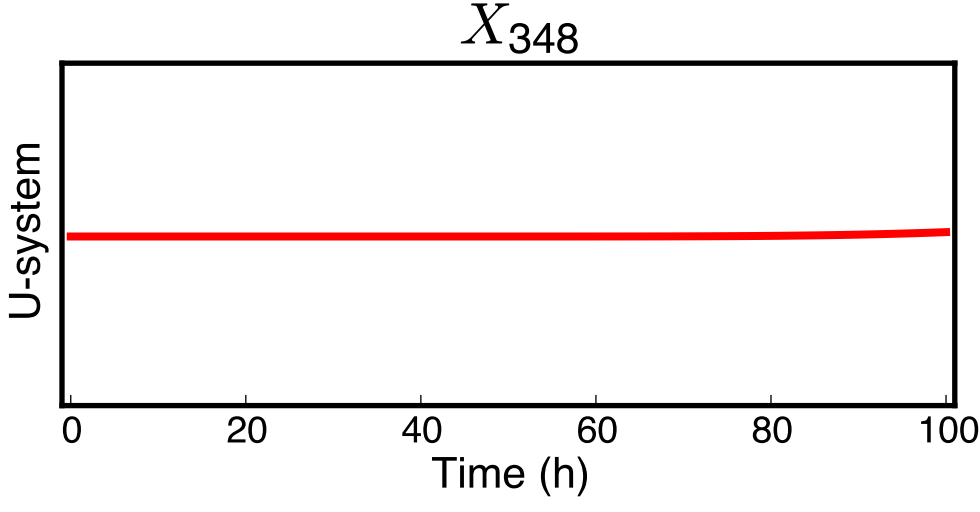
Time (h)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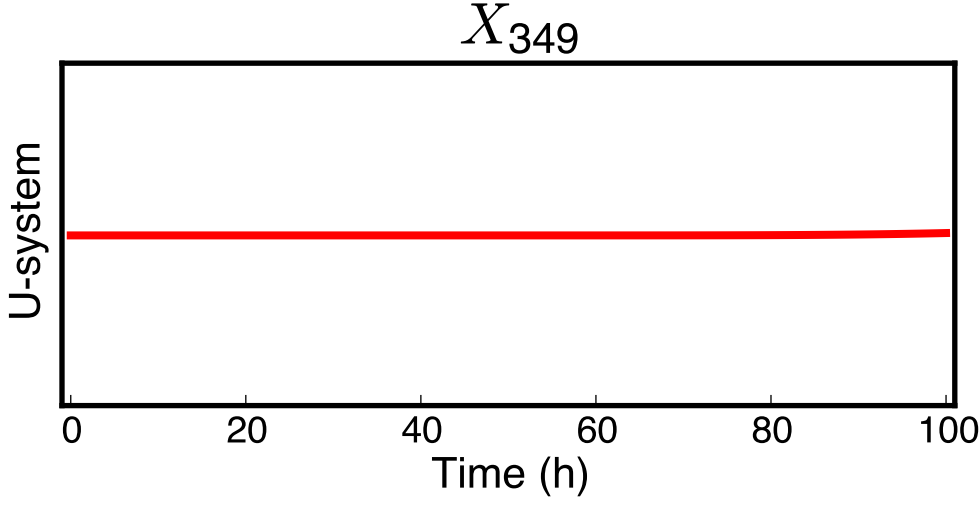
Time (h)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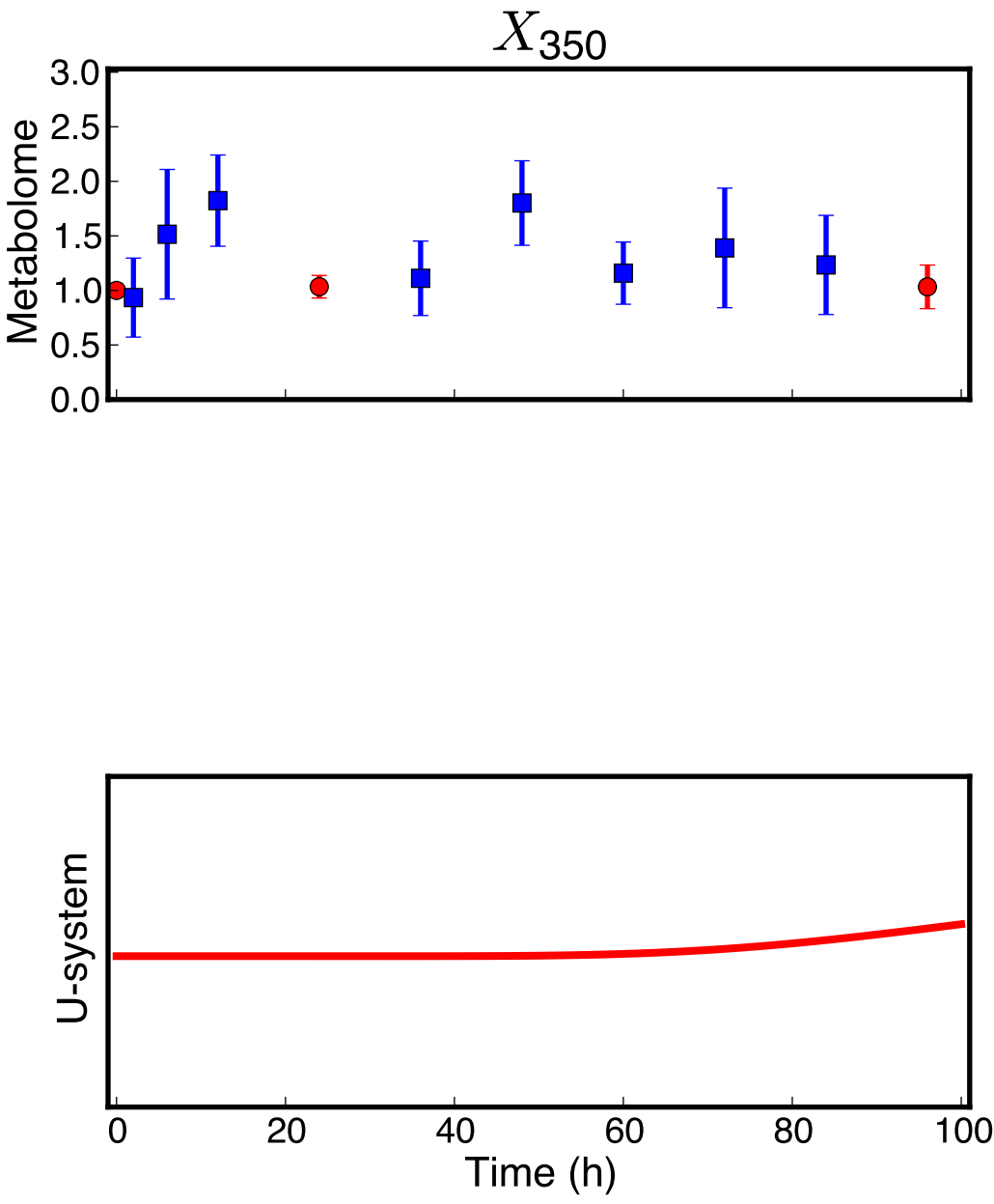
Time (h)


X_{350}
Metabolome
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2.0
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1.0
0.5
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U-system
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40
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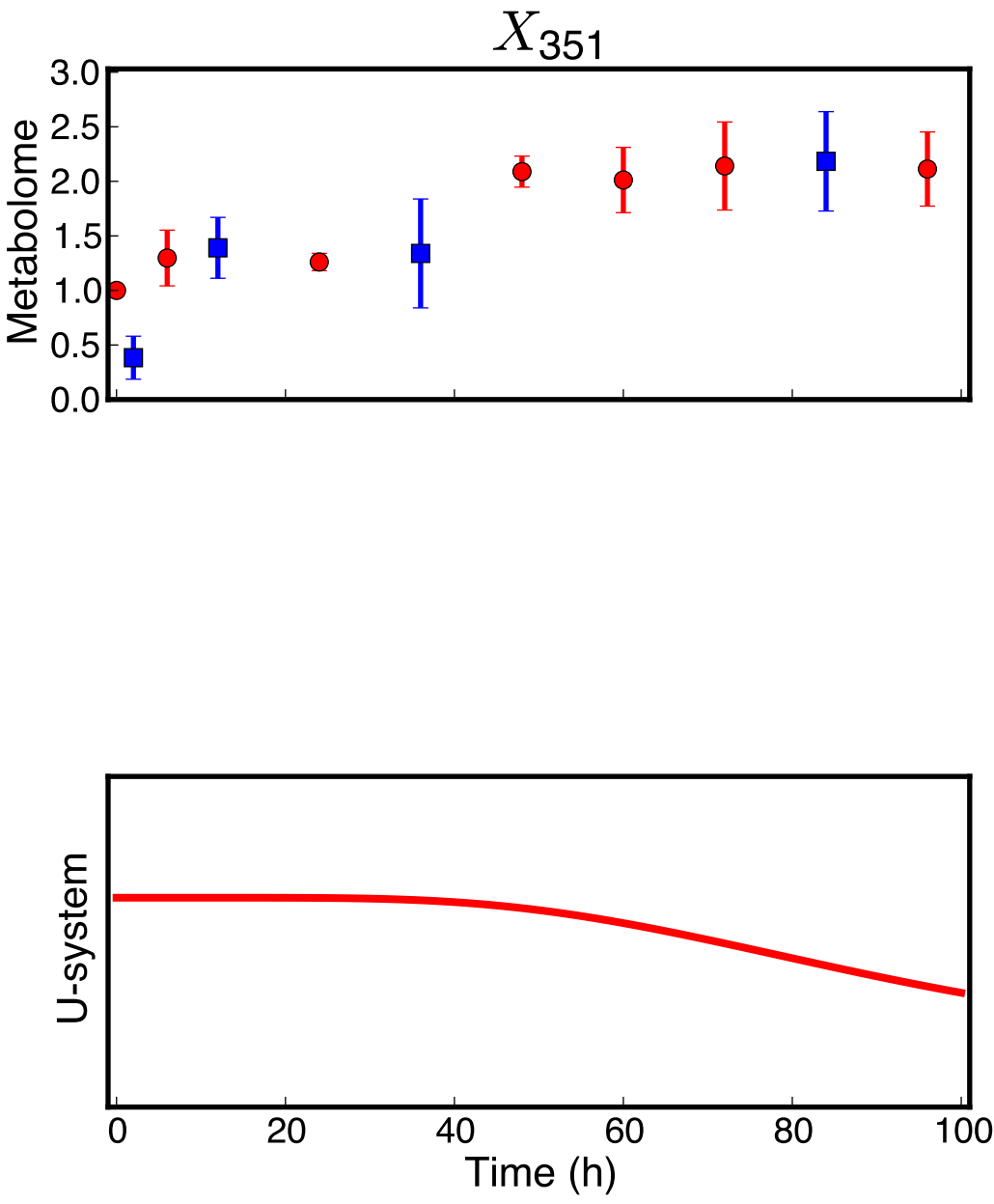
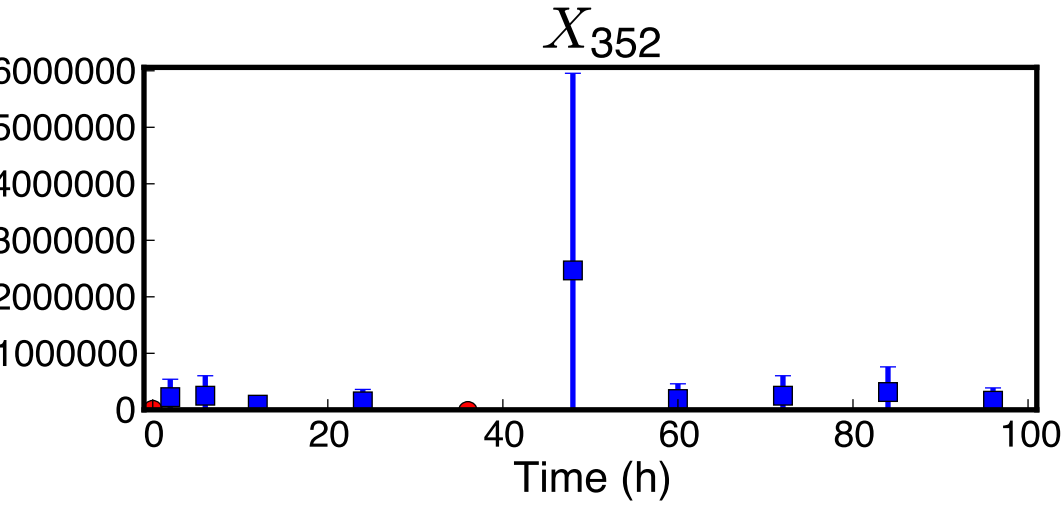
80
100
Time (h)


X_{351}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
U-system
0
20
40
60
80
100
Time (h)


X_{352}
6000000
5000000
4000000
3000000
2000000
1000000
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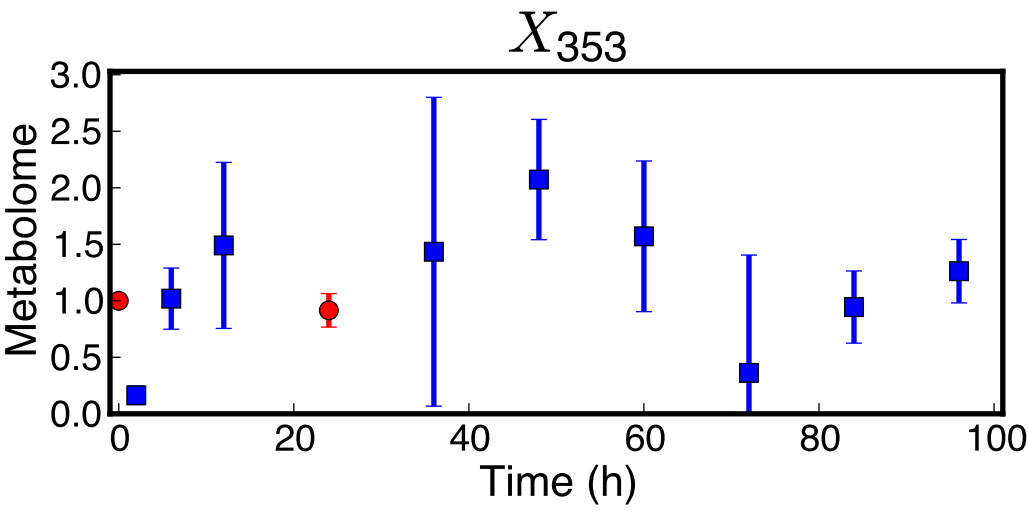
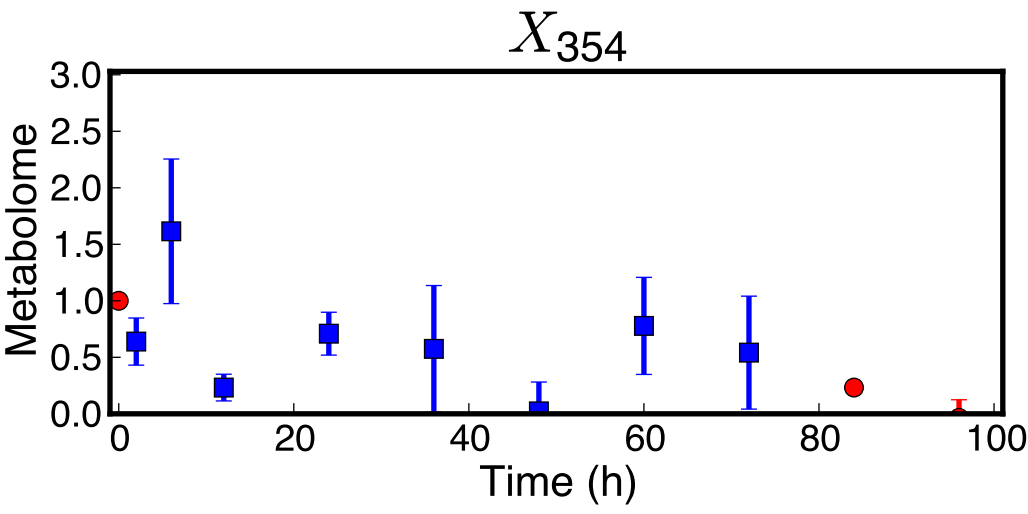
0
20
40
60
80
100
Time (h)


X_{353}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{354}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
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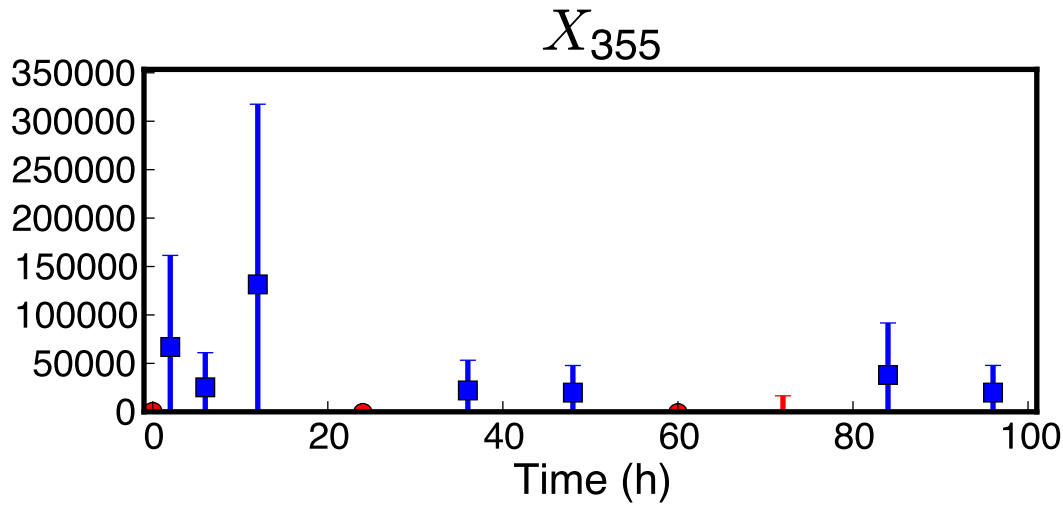
60
80
100
Time (h)


X_{355}
350000
300000
250000
200000
150000
100000
50000
0
0
20
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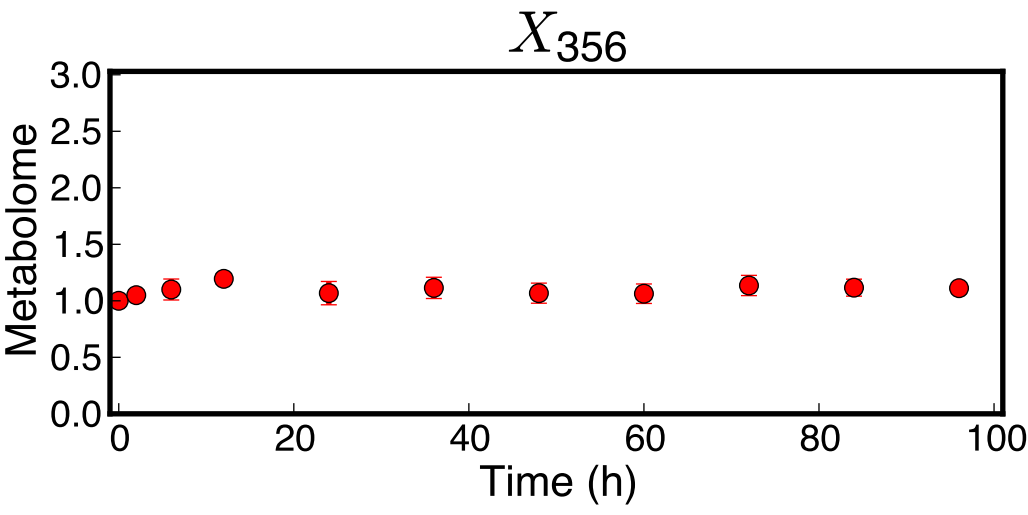
60
80
100
Time (h)


X_{356}
Metabolome
3.0
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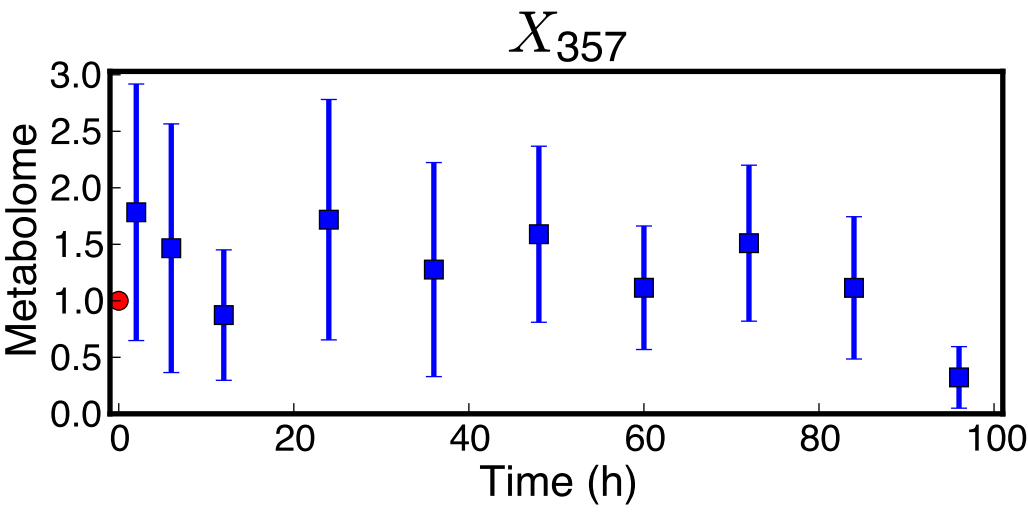
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{357}
Metabolome
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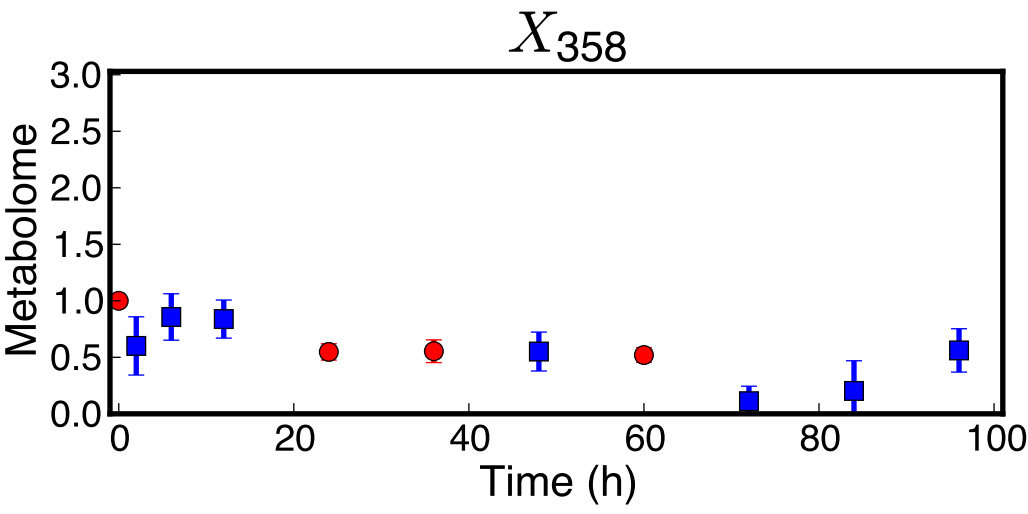
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{358}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
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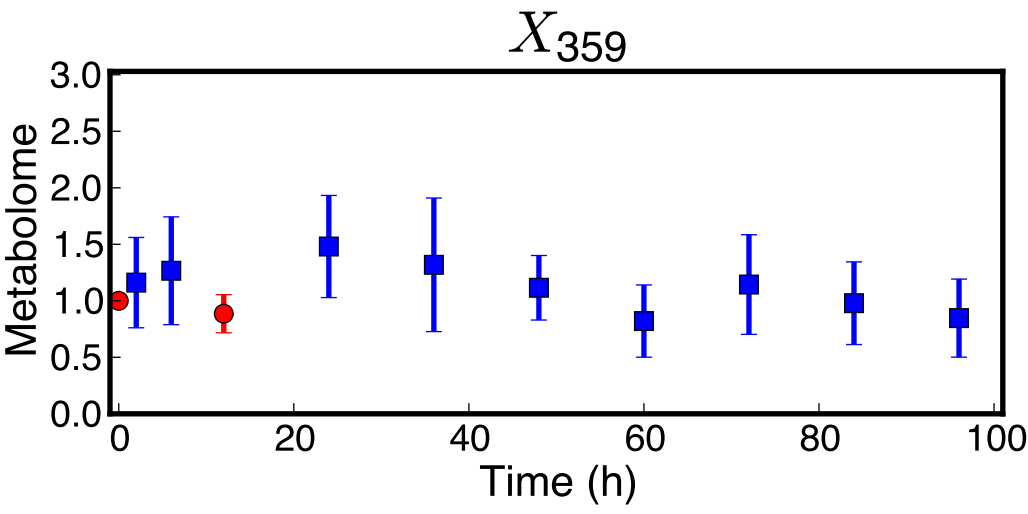
60
80
100
Time (h)


X_{359}
Metabolome
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2.5
2.0
1.5
1.0
0.5
0.0
0
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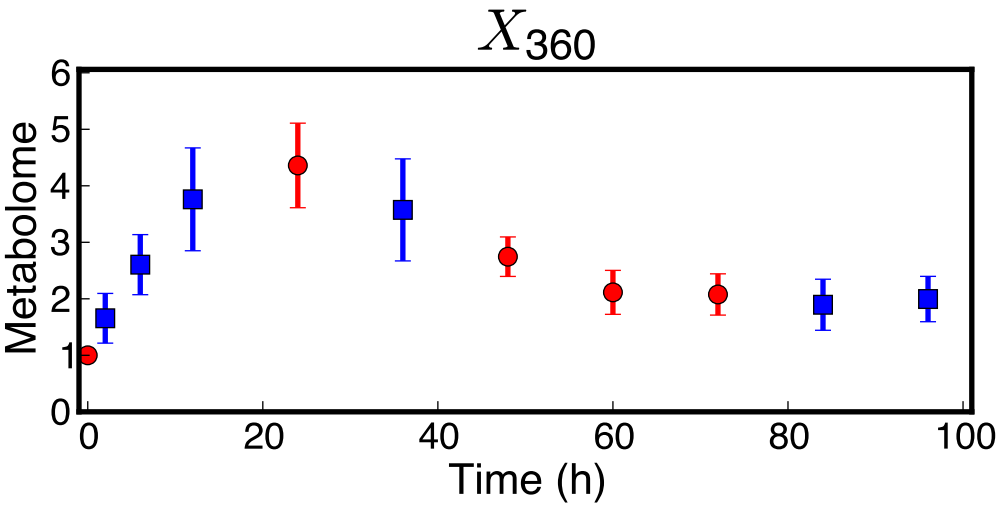
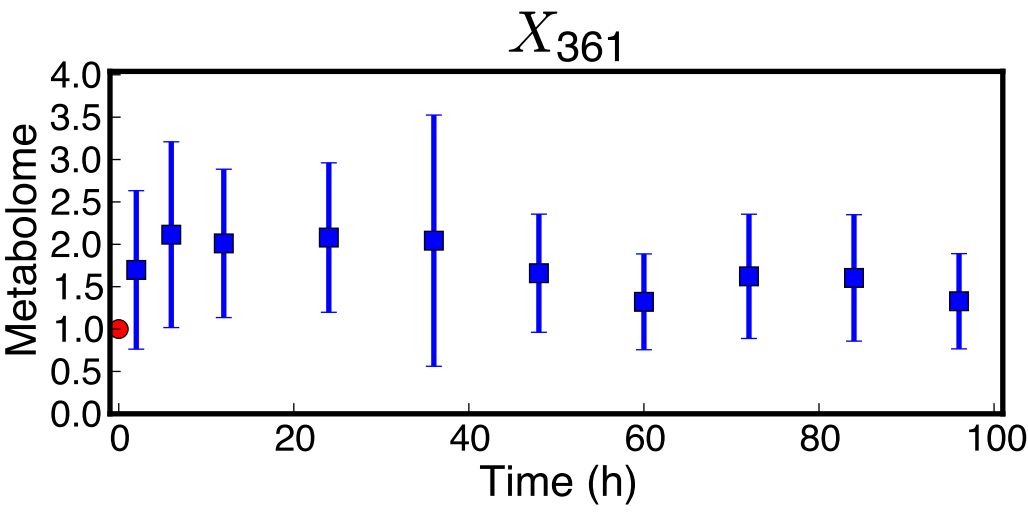
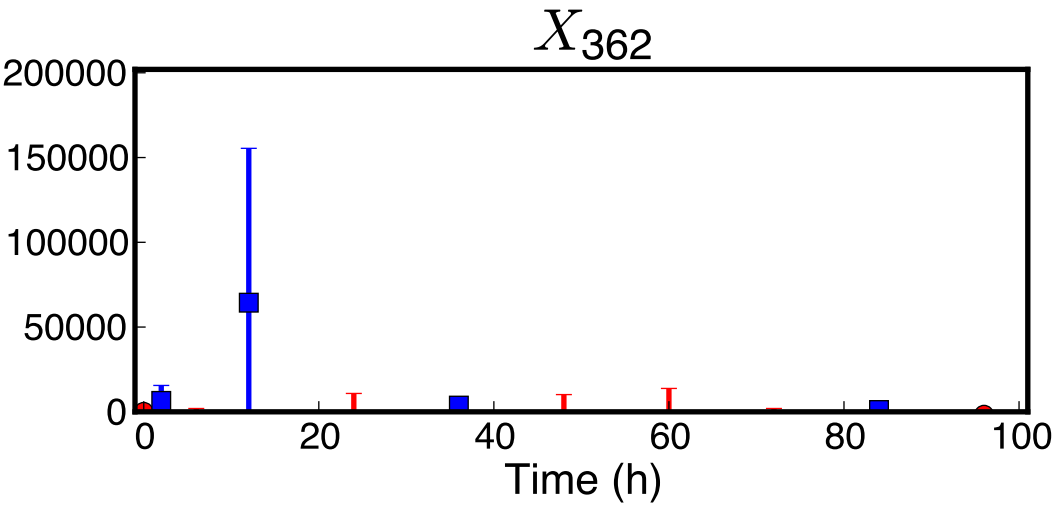
60
80
100
Time (h)


X_{360}
Metabolome
Time (h)
0
1
2
3
4
5
6
0
20
40
60
80
100


X_{361}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{362}
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50000
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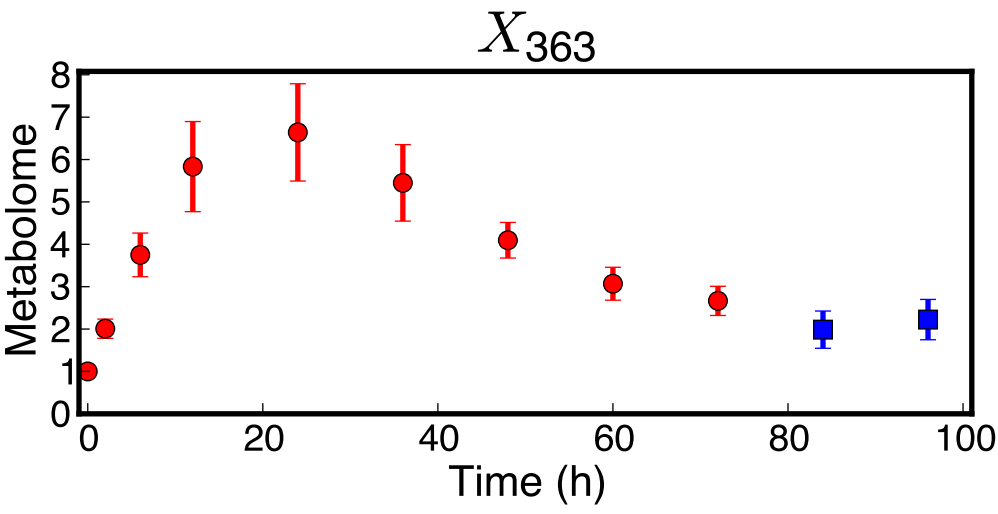
80
100
Time (h)


X_{363}
Metabolome
Time (h)
0
1
2
3
4
5
6
7
8
0
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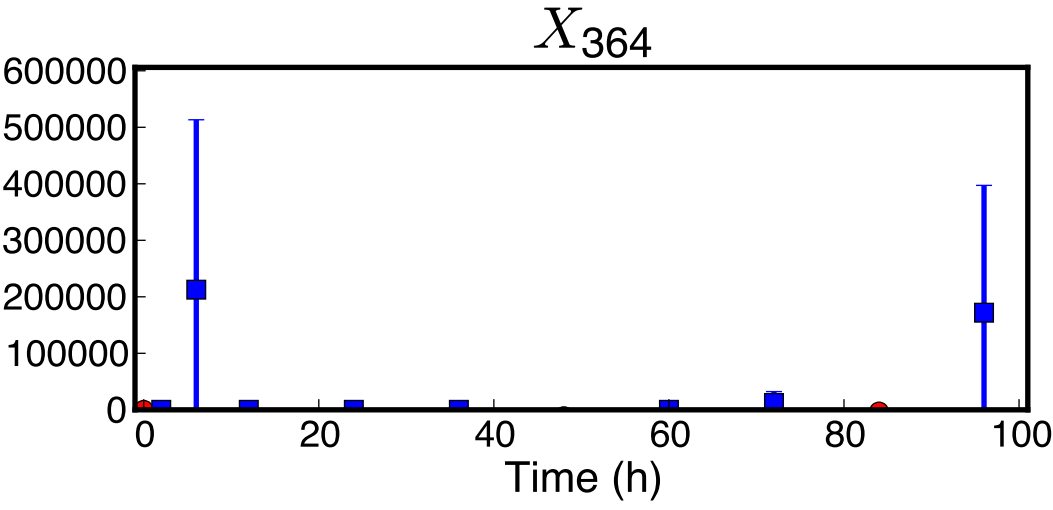
40
60
80
100


X_{364}
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300000
200000
100000
0
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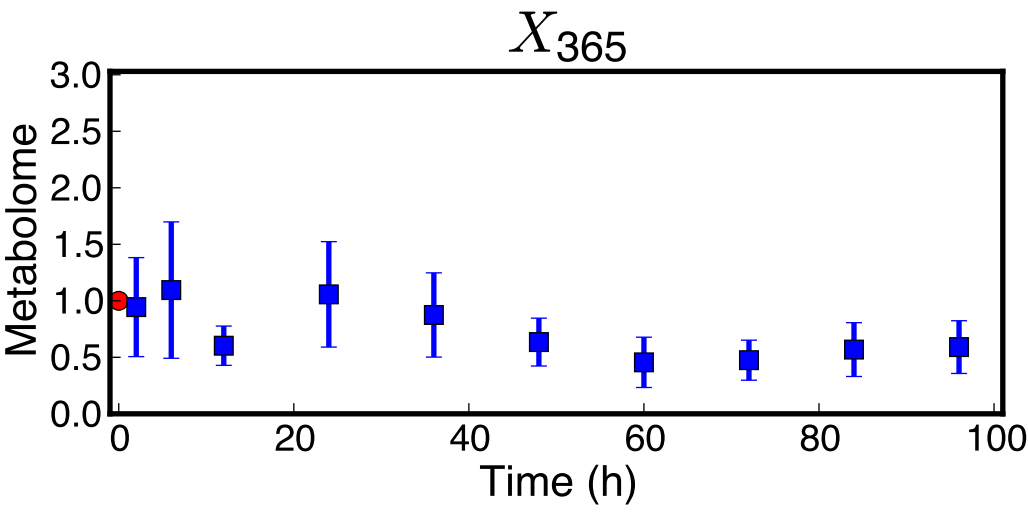
40
60
80
100
Time (h)


X_{365}
Metabolome
3.0
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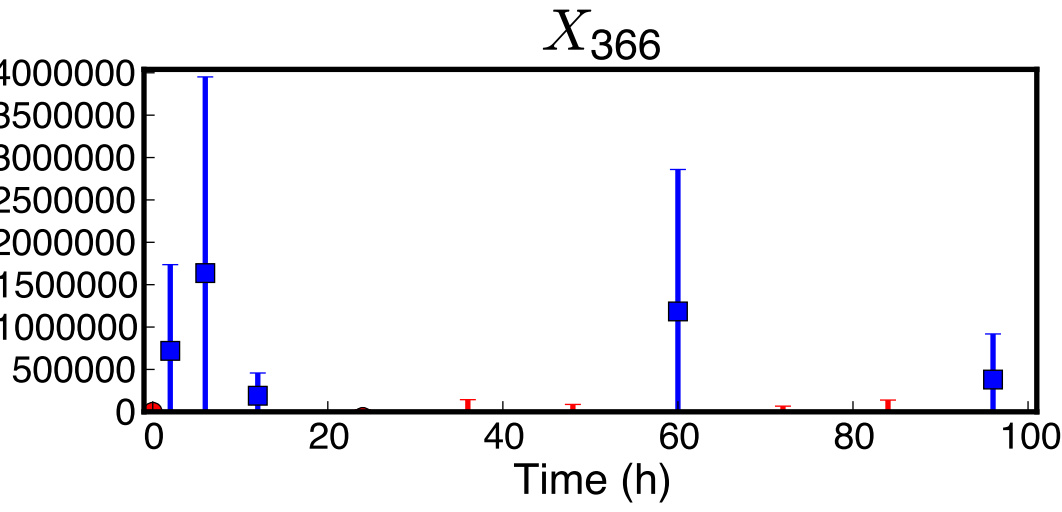
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{366}
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
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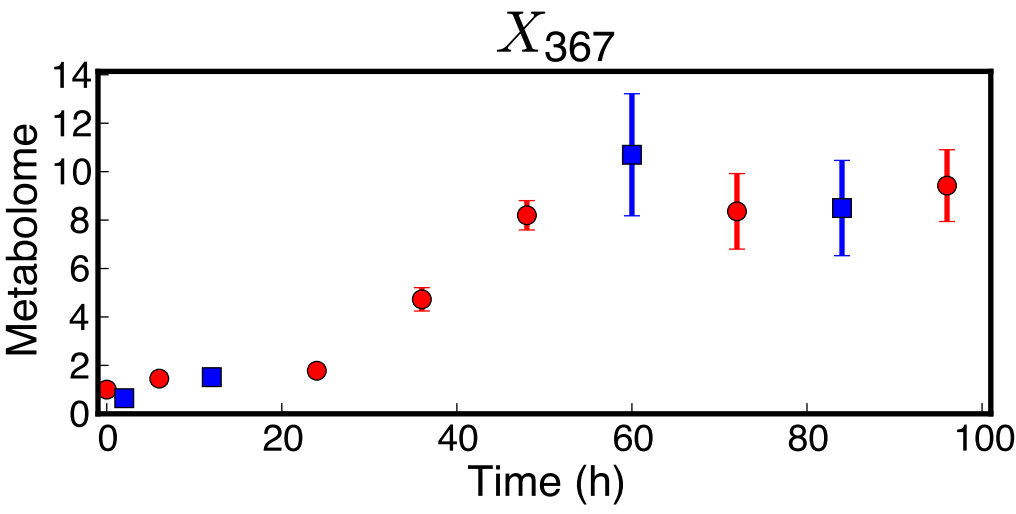
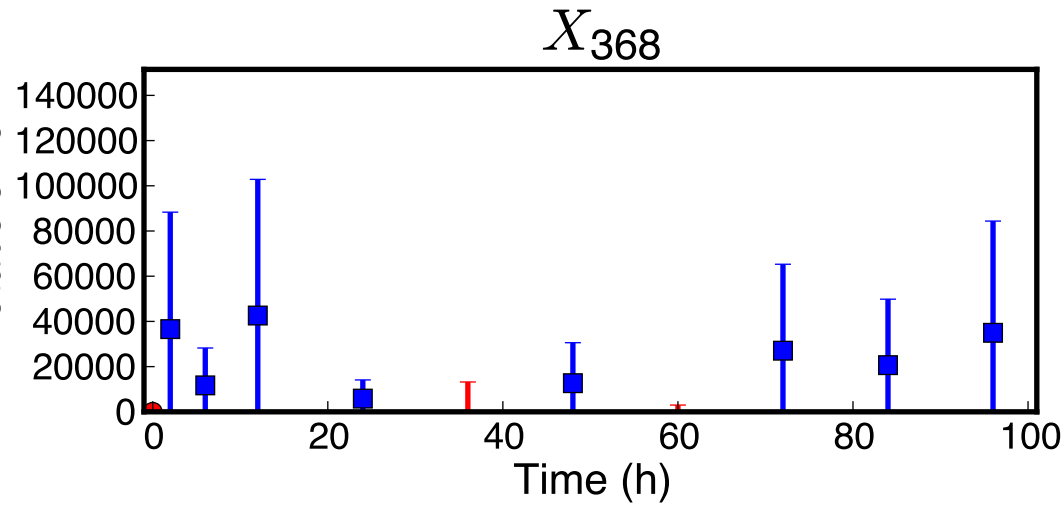
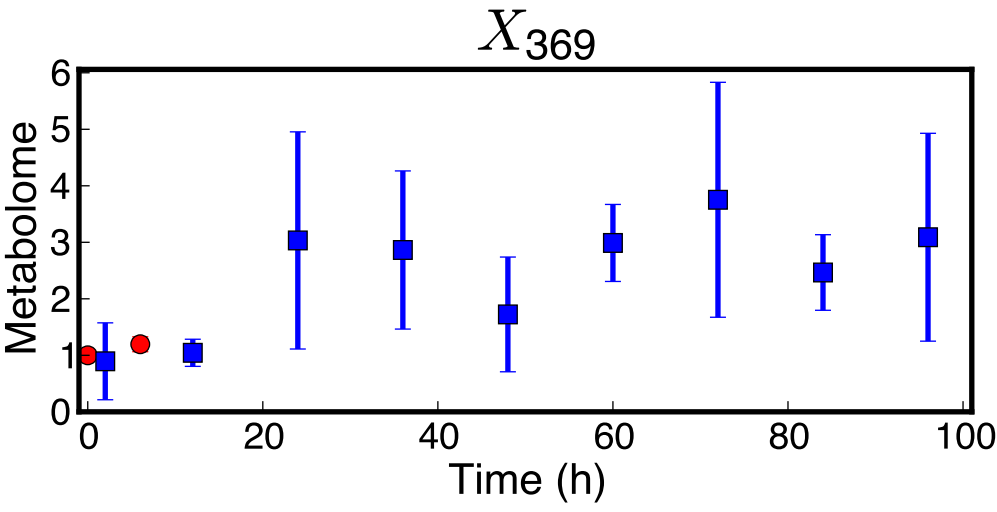
40
60
80
100
Time (h)


X_{367}
Metabolome
Time (h)
0
2
4
6
8
10
12
14
0
20
40
60
80
100


X_{368}
140000
120000
100000
80000
60000
40000
20000
0
0
20
40
60
80
100
Time (h)


X_{369}
Metabolome
Time (h)
0
1
2
3
4
5
6
0
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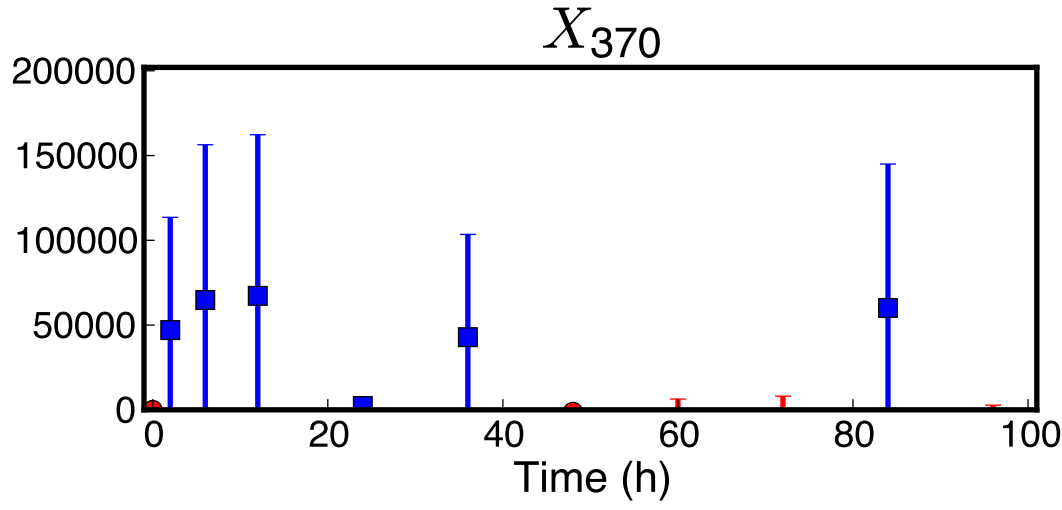
40
60
80
100


X_{370}
200000
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50000
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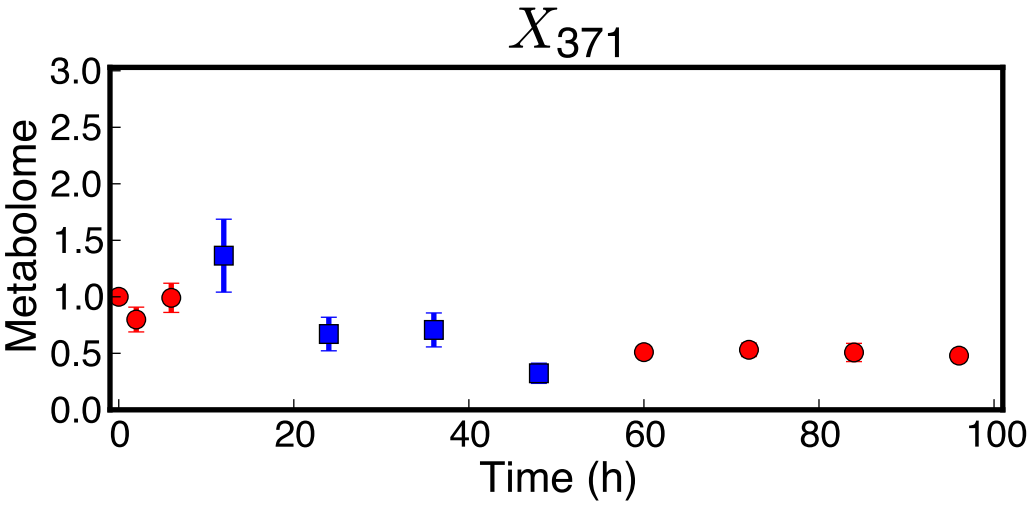
100
Time (h)


X_{371}
Metabolome
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2.5
2.0
1.5
1.0
0.5
0.0
0
20
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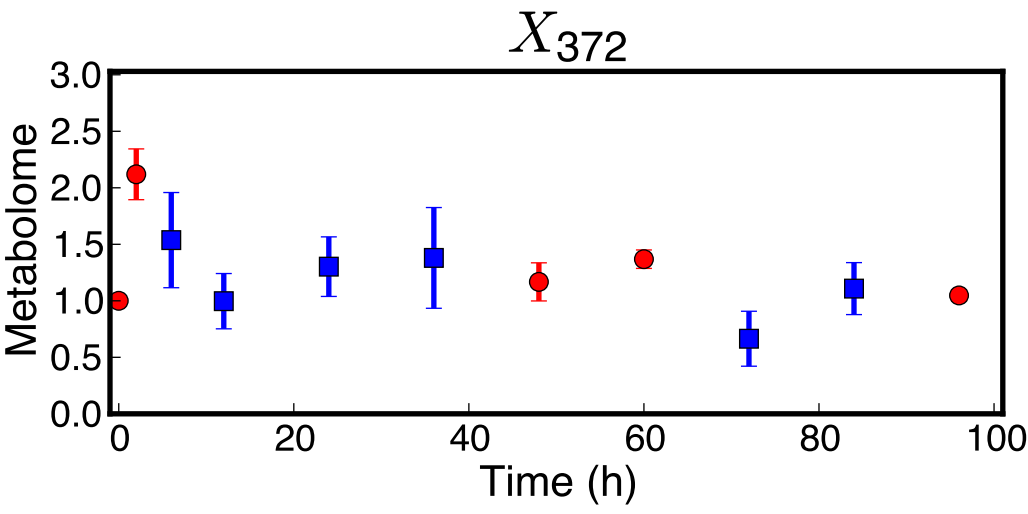
60
80
100
Time (h)


X_{372}
Metabolome
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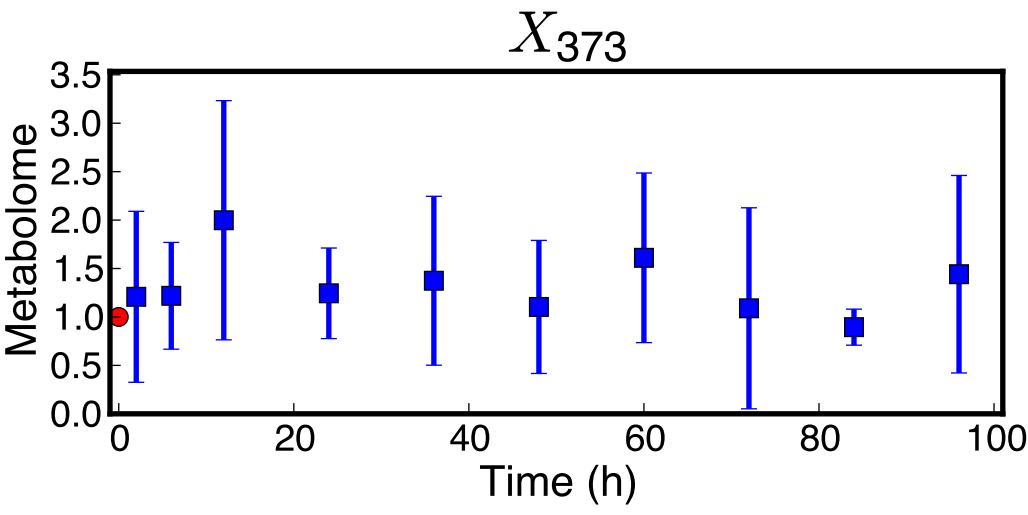
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{373}
Metabolome
3.5
3.0
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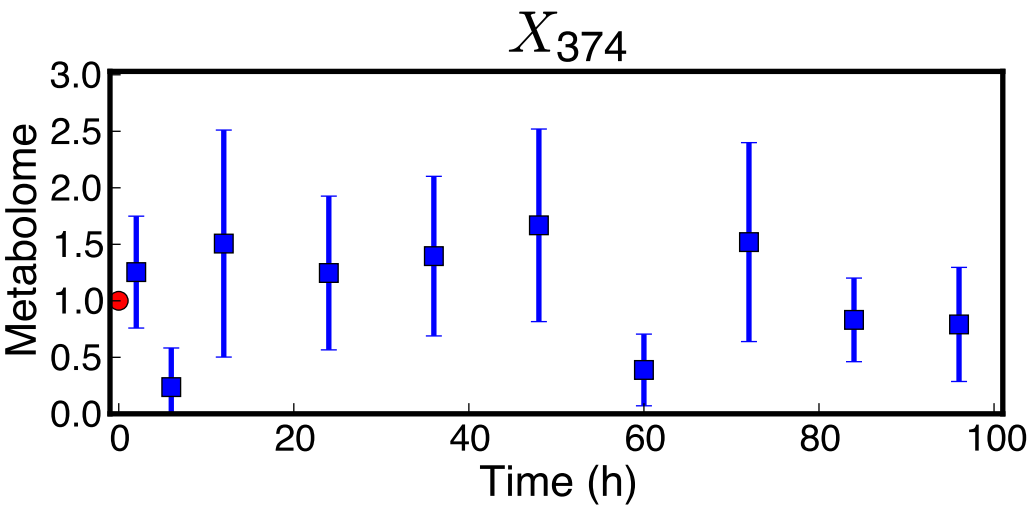
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{374}
Metabolome
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2.0
1.5
1.0
0.5
0.0
0
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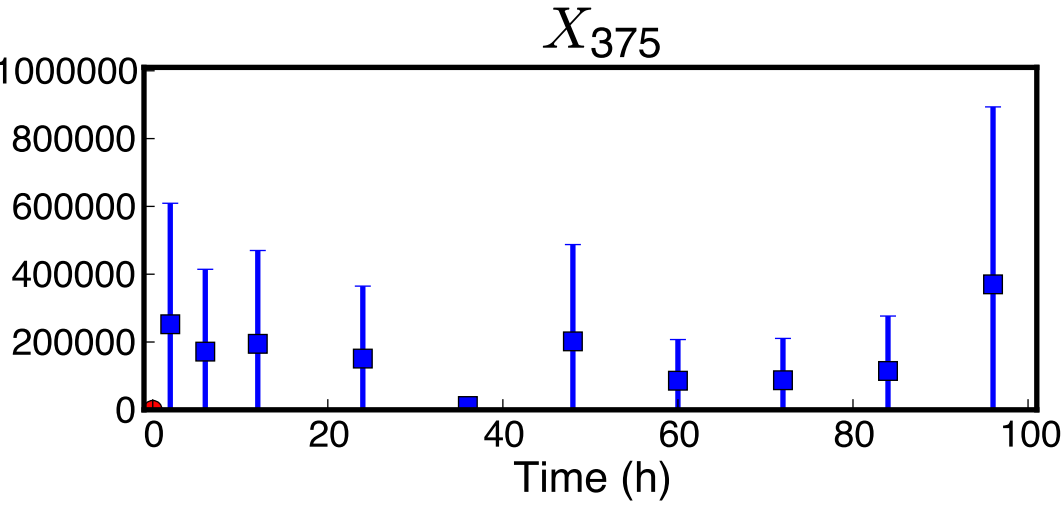
80
100
Time (h)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400000
200000
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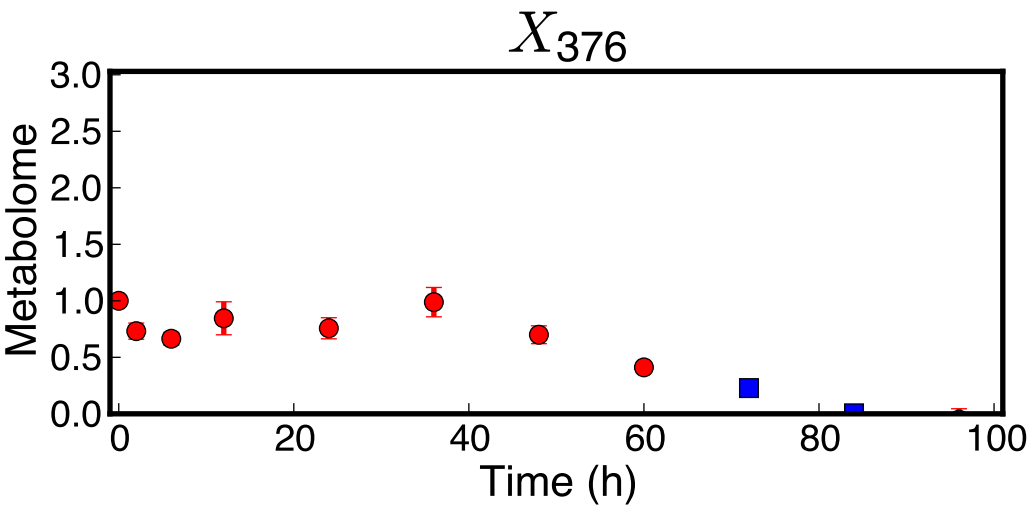
80
100
Time (h)


X_{376}
Metabolome
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2.0
1.5
1.0
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0.0
0
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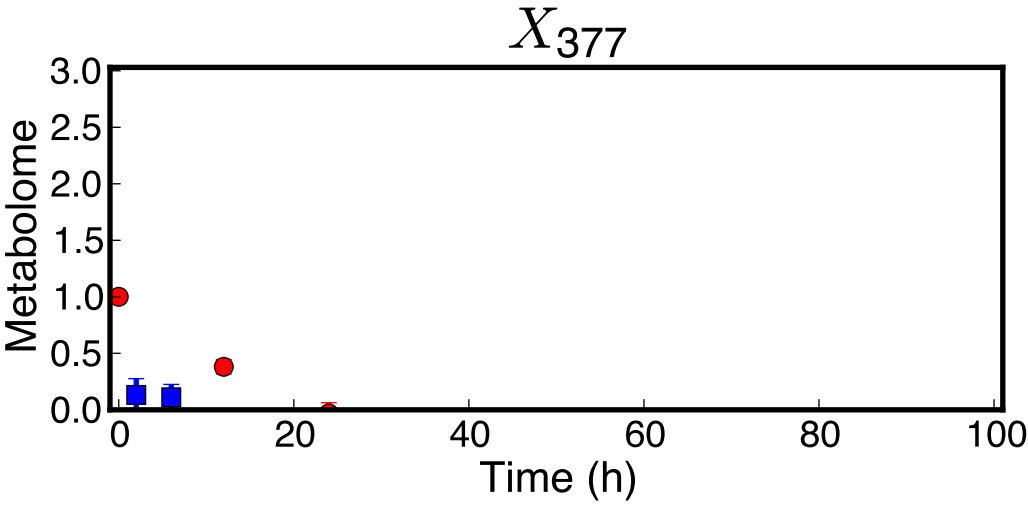
60
80
100
Time (h)


X_{377}
Metabolome
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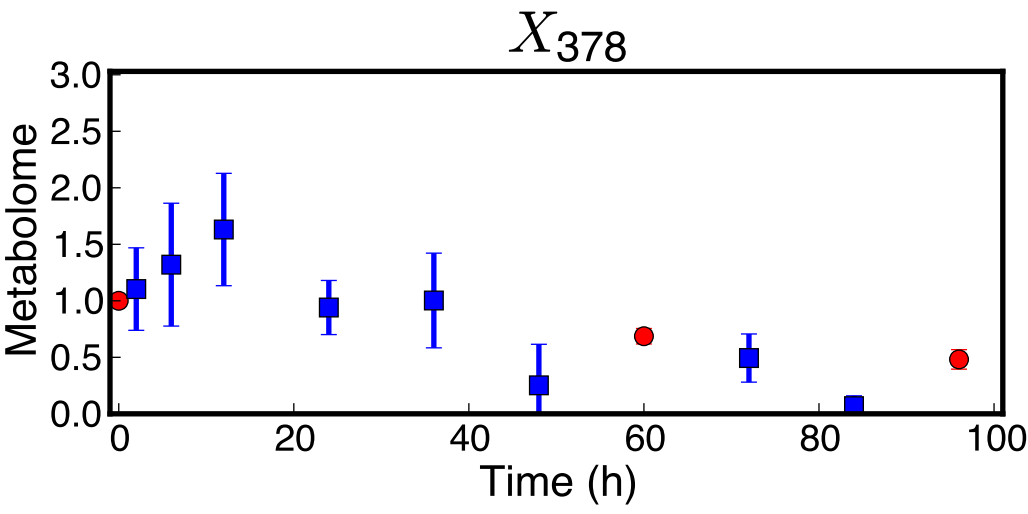
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{378}
Metabolome
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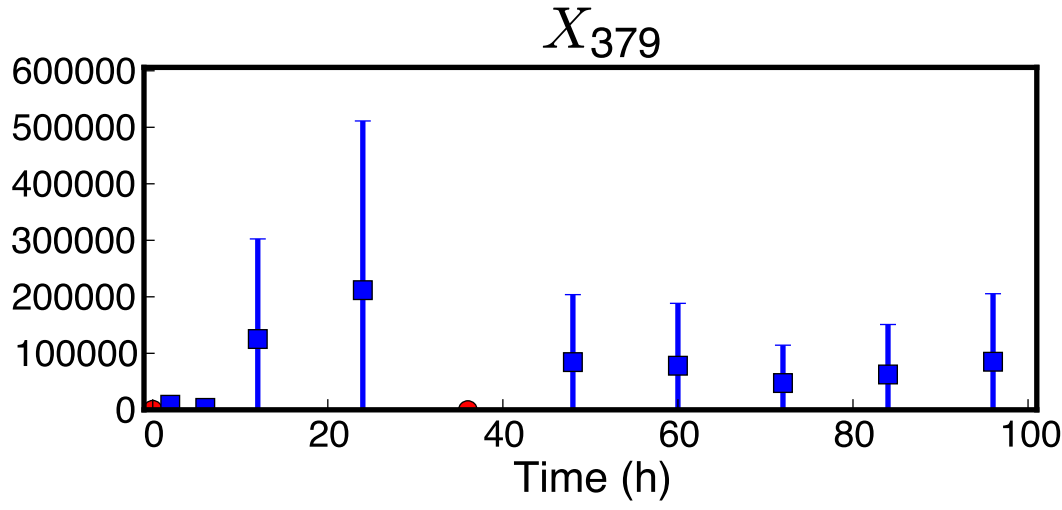
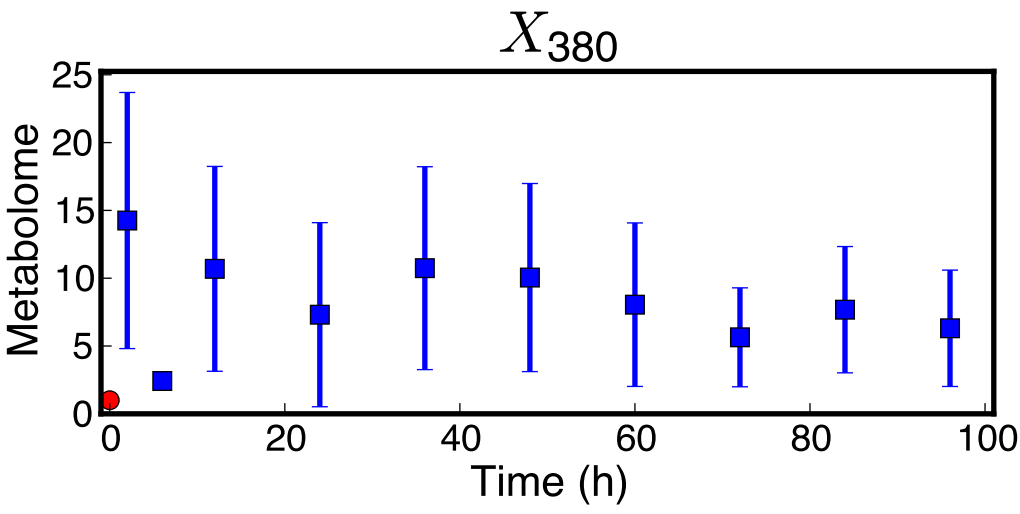
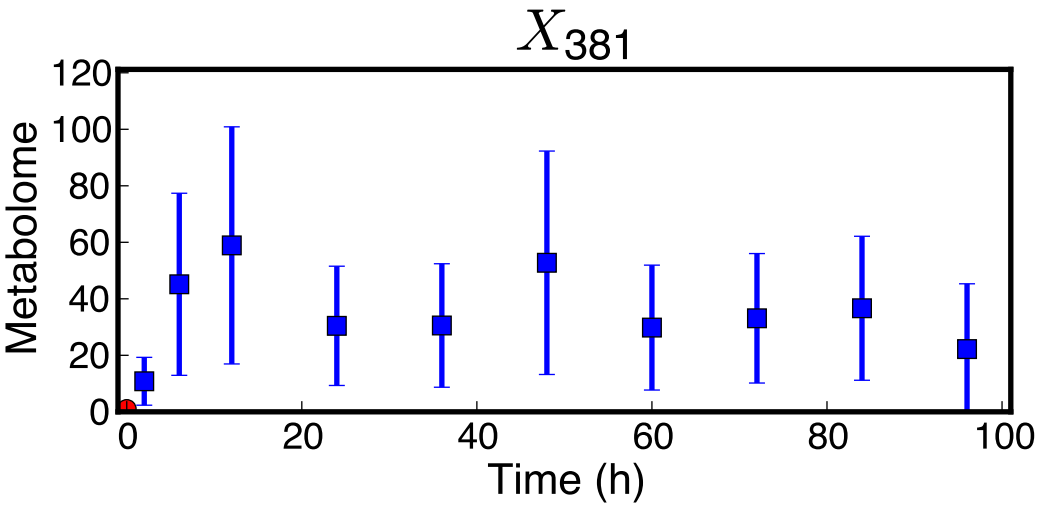
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{379}
600000
500000
400000
300000
200000
100000
0
0
20
40
60
80
100
Time (h)


X_{380}
Metabolome
Time (h)
0
5
10
15
20
25
0
20
40
60
80
100


X_{381}
120
100
80
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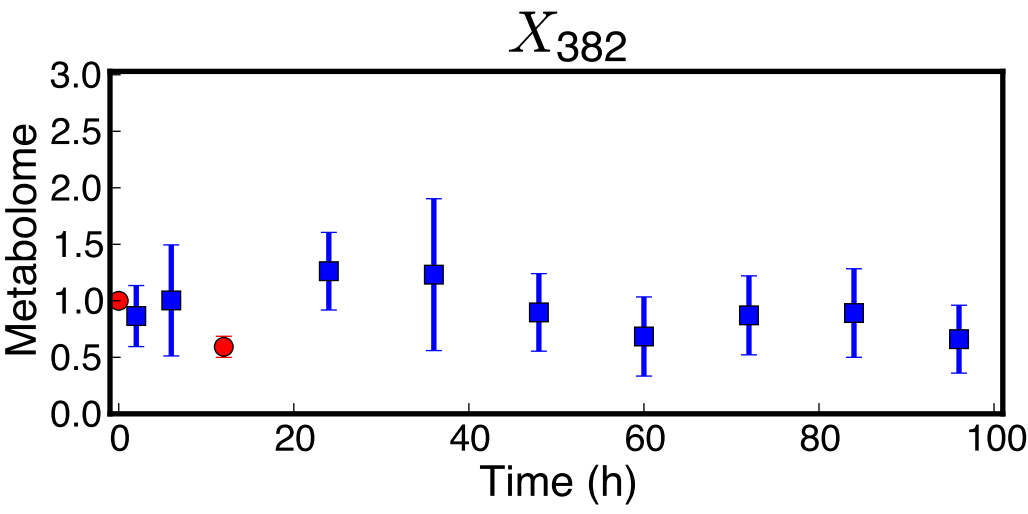
40
20
0
Metabolome
0
20
40
60
80
100
Time (h)


X_{382}
Metabolome
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2.0
1.5
1.0
0.5
0.0
0
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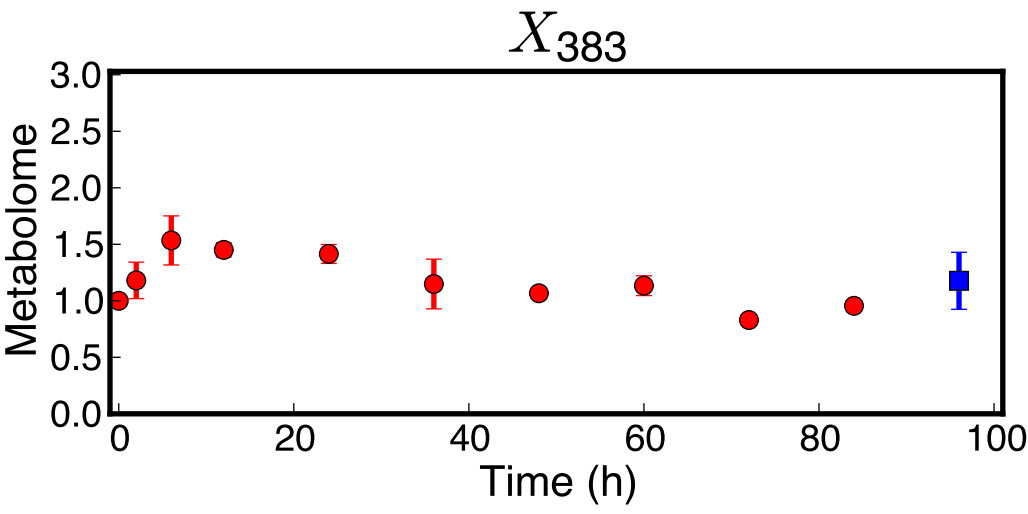
60
80
100
Time (h)


X_{383}
Metabolome
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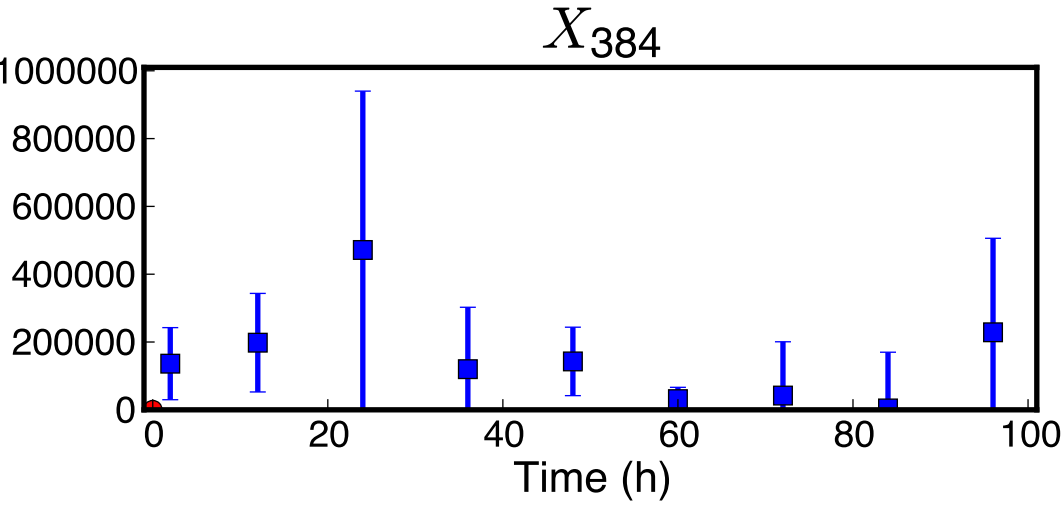
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{384}
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200000
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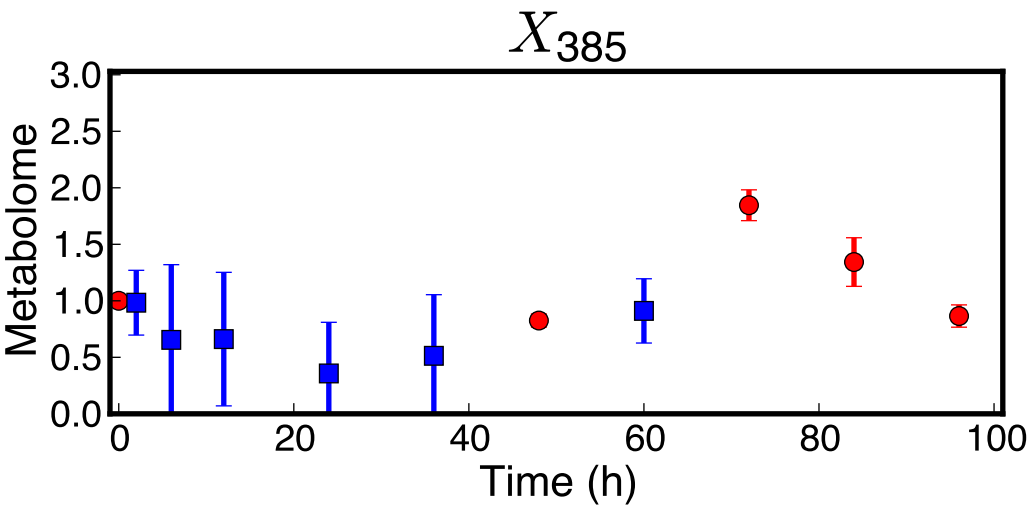
80
100
Time (h)


X_{385}
Metabolome
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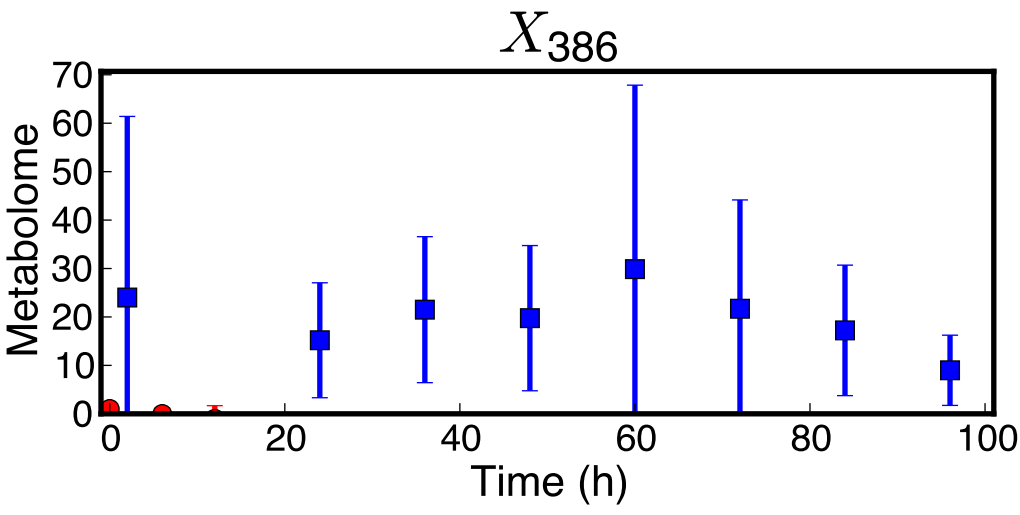
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{386}
Metabolome
70
60
50
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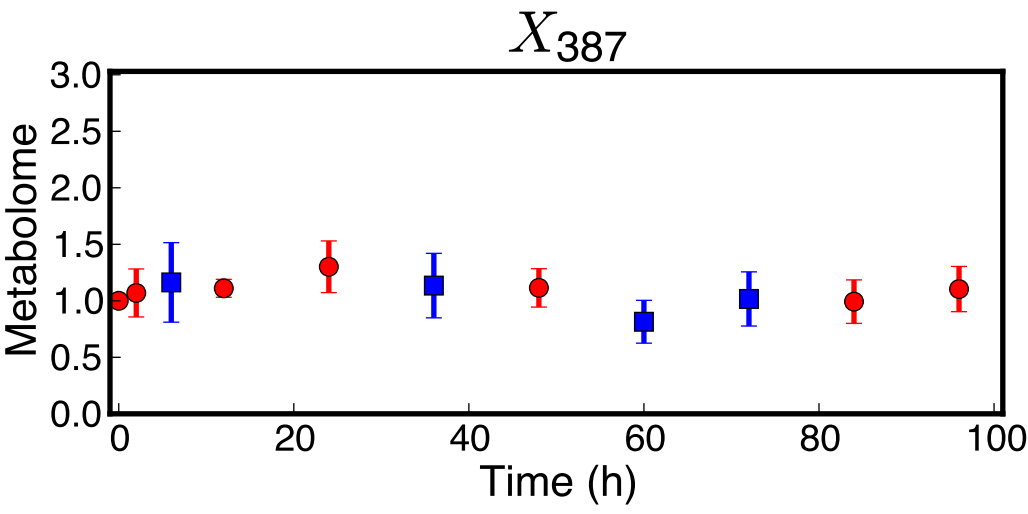
30
20
10
0
0
20
40
60
80
100
Time (h)


X_{387}
Metabolome
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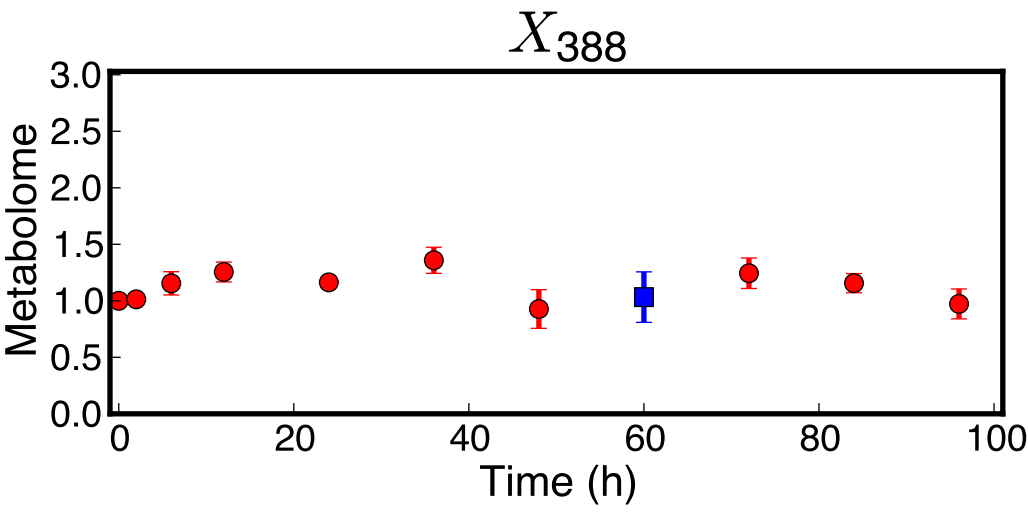
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{388}
Metabolome
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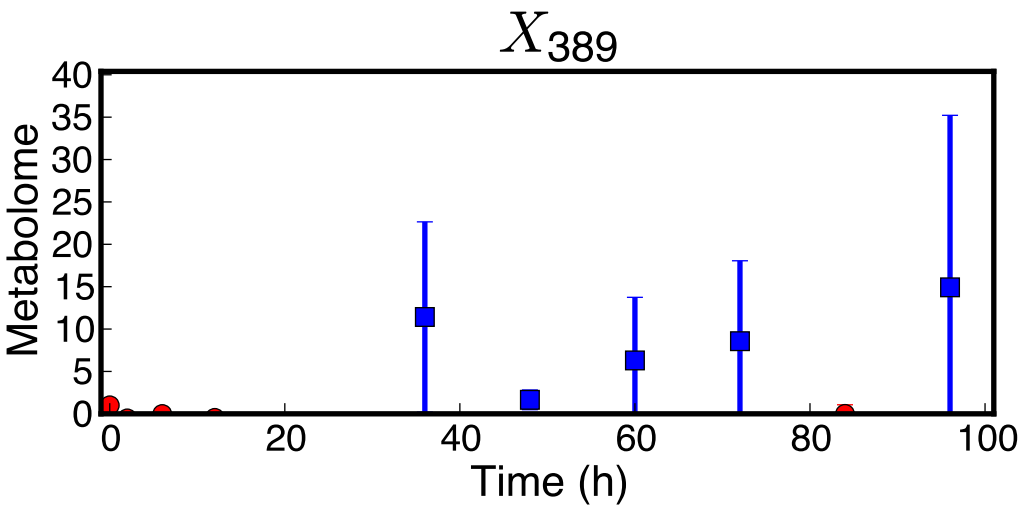
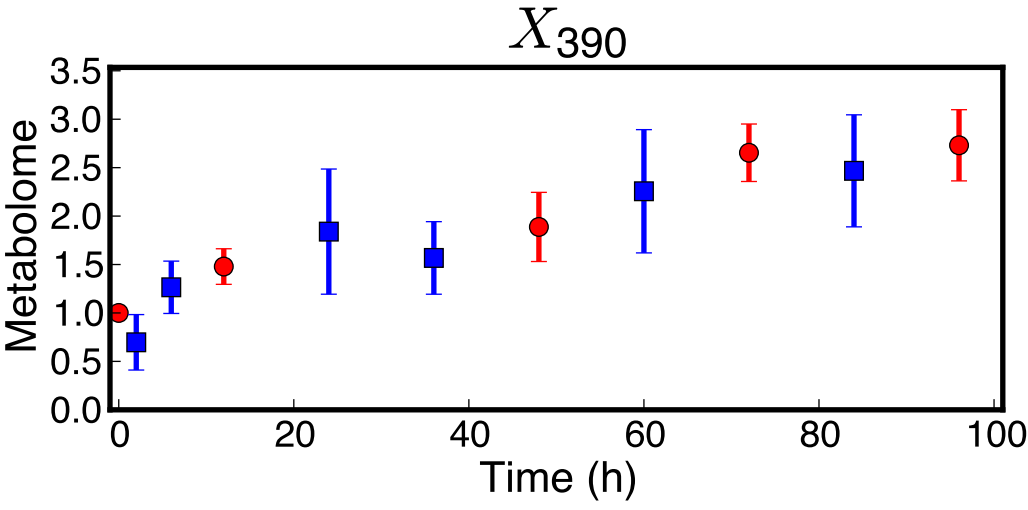
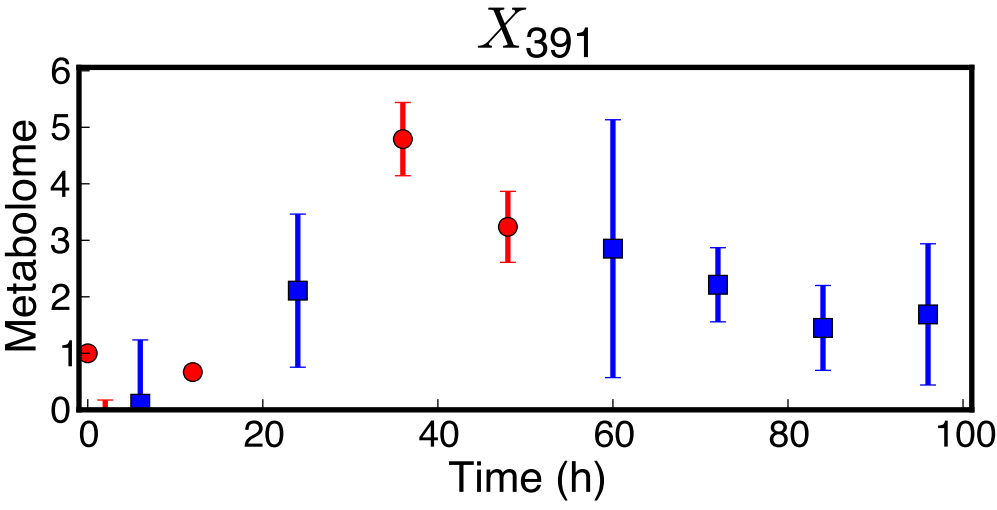
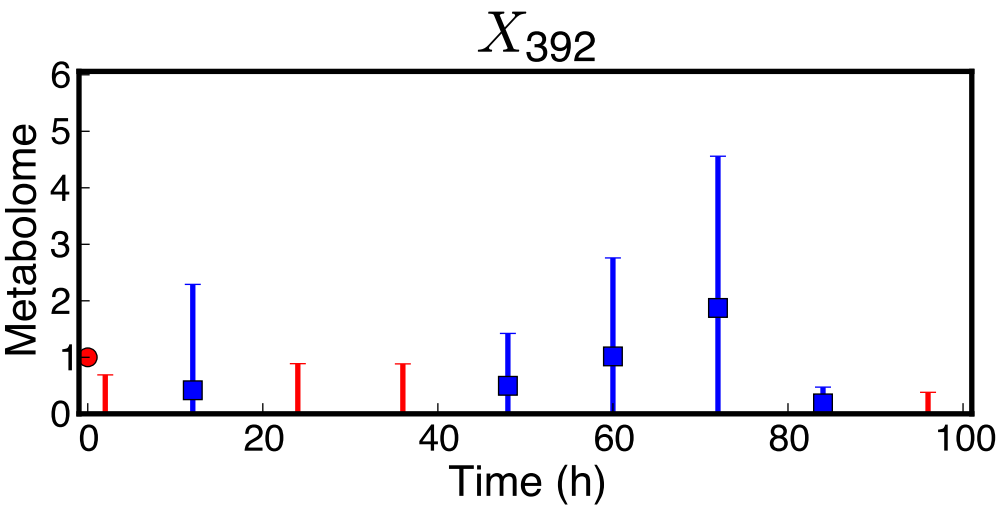
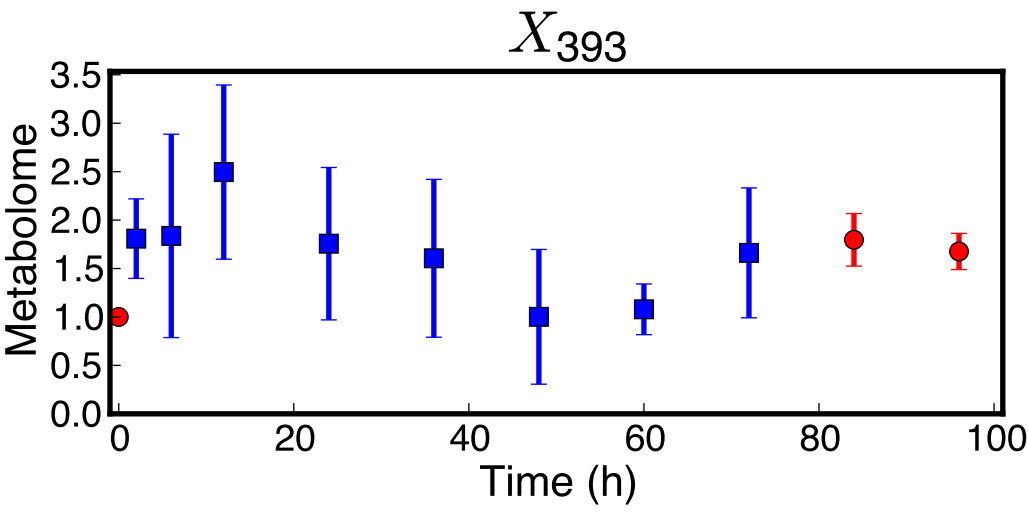
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

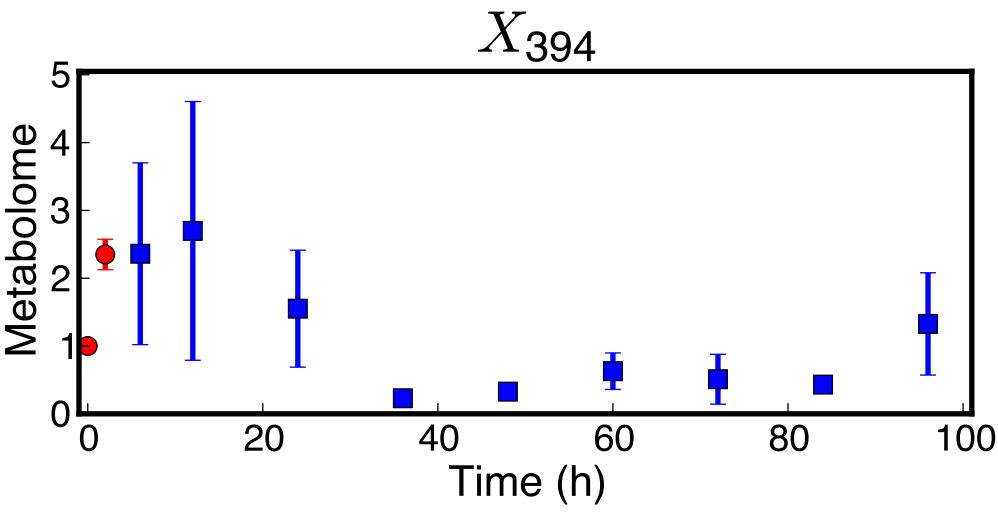

X_{389}
Metabolome
Time (h)
0
5
10
15
20
25
30
35
40
0
20
40
60
80
100

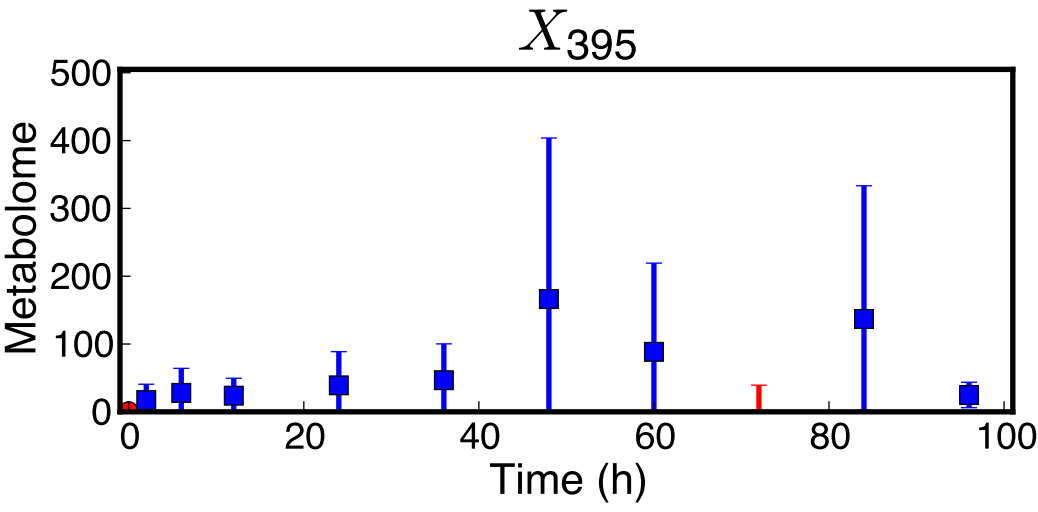

X_{390}
Metabolome
Time (h)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
20
40
60
80
100

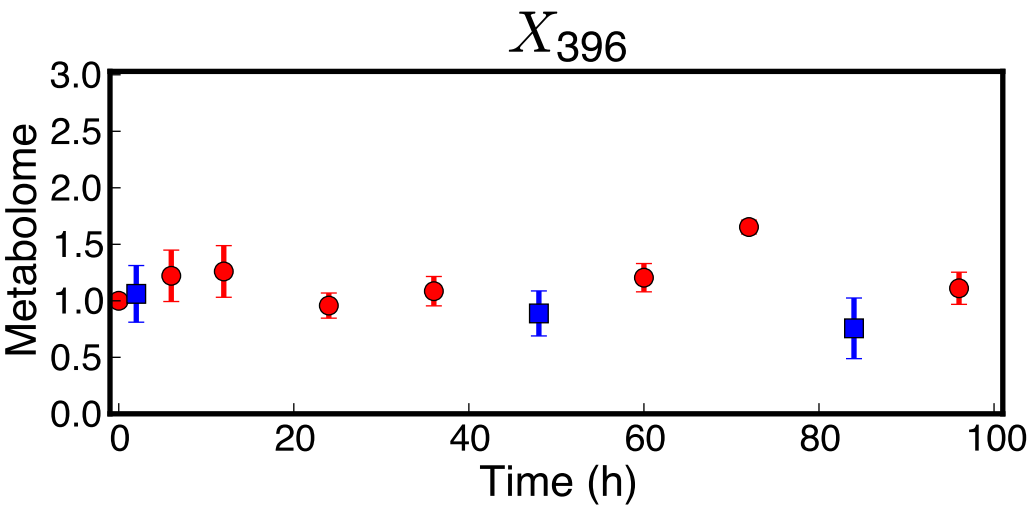

X_{391}
Metabolome
Time (h)
0
1
2
3
4
5
6
0
20
40
60
80
100

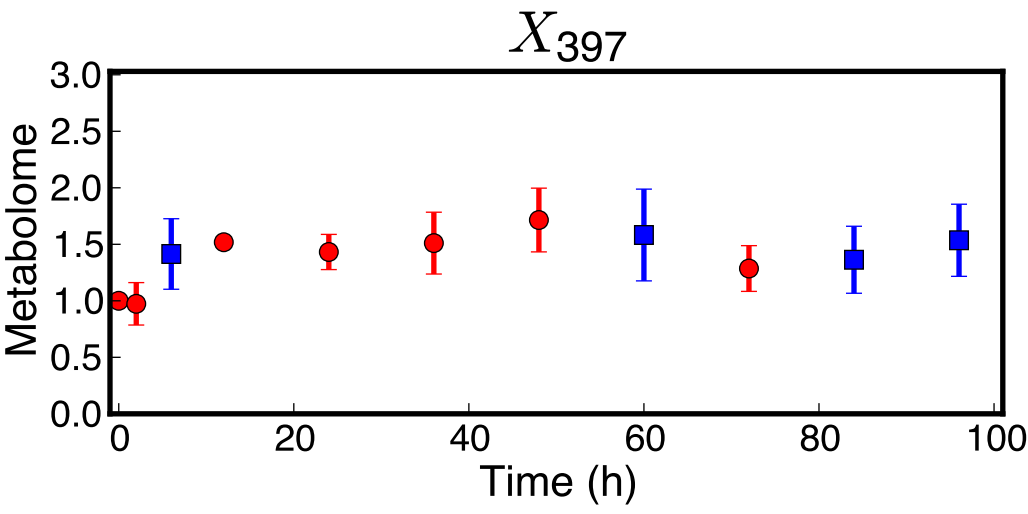

X_{392}
Metabolome
0
1
2
3
4
5
6
0
20
40
60
80
100
Time (h)

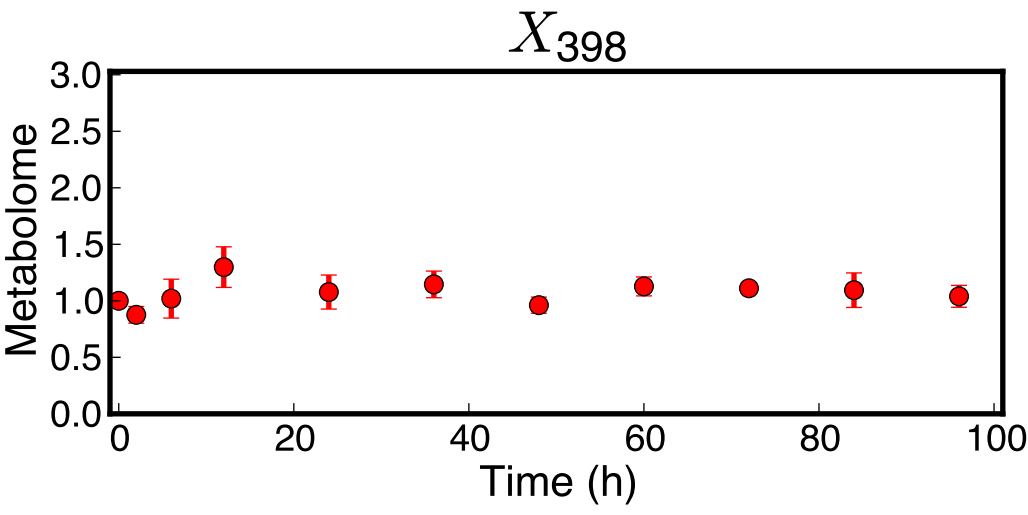

X_{393}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

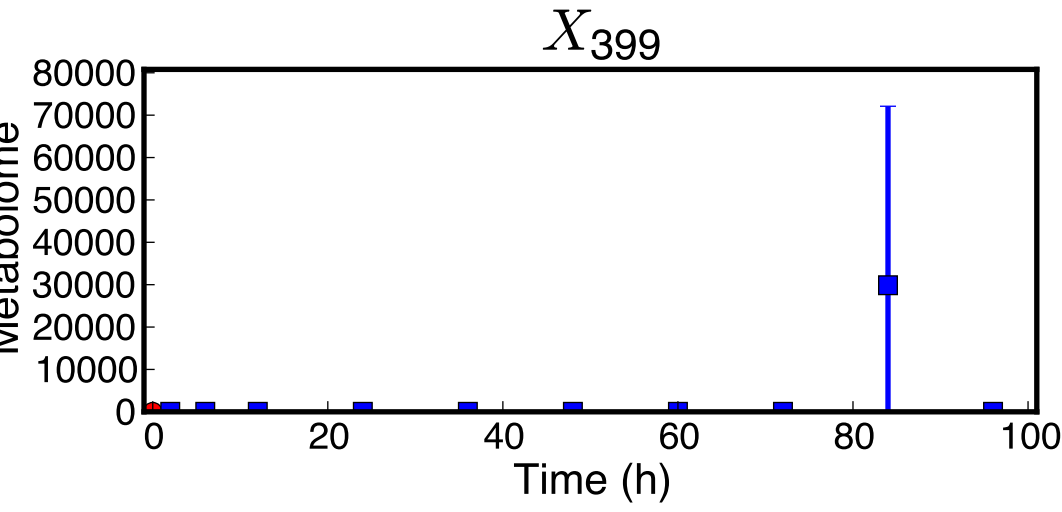

X_{394}
Metabolome
Time (h)
0
1
2
3
4
5
0
20
40
60
80
100

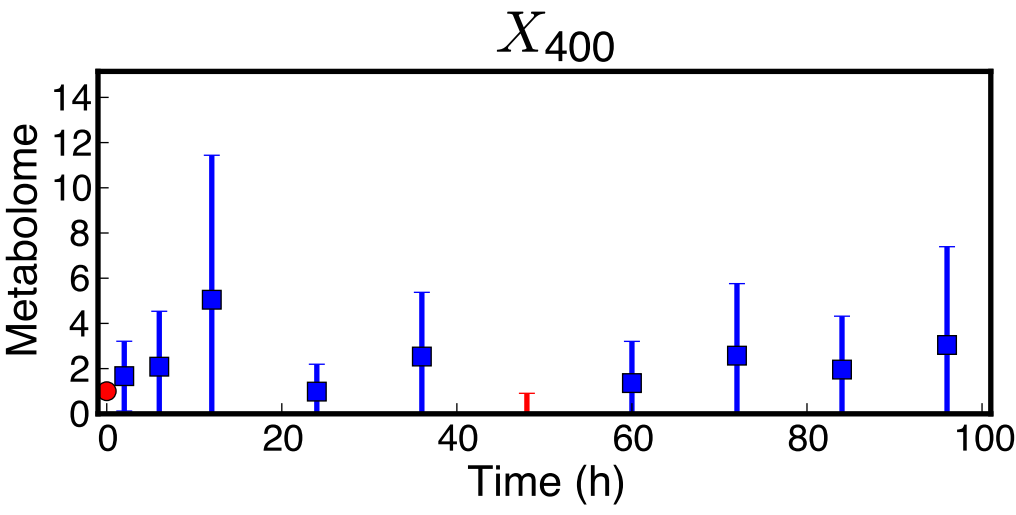

X_{395}
Metabolome
500
400
300
200
100
0
0
20
40
60
80
100
Time (h)

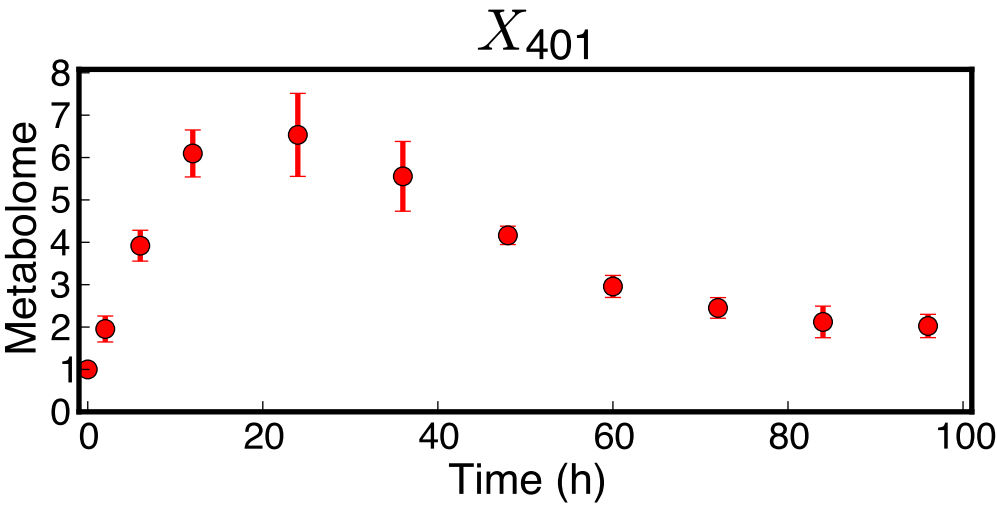

X_{396}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

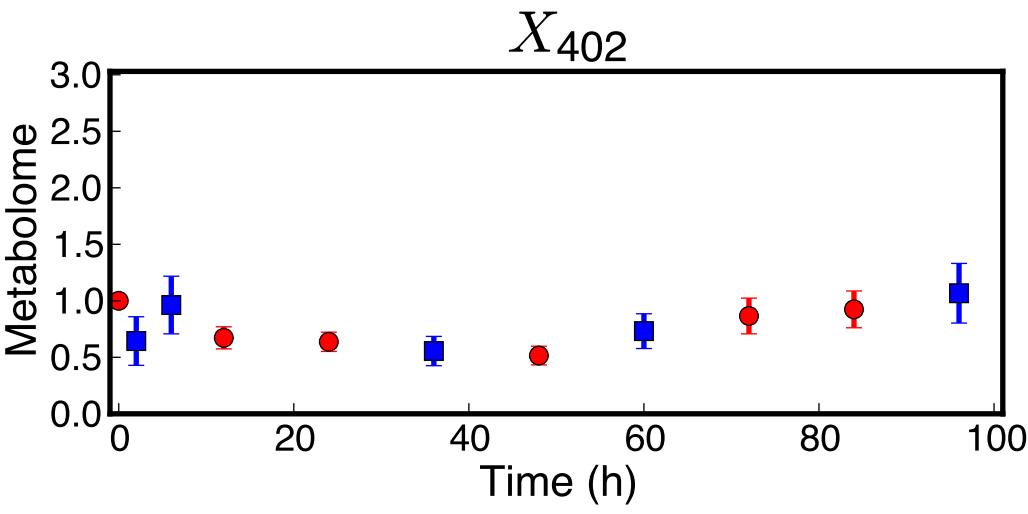

X_{397}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

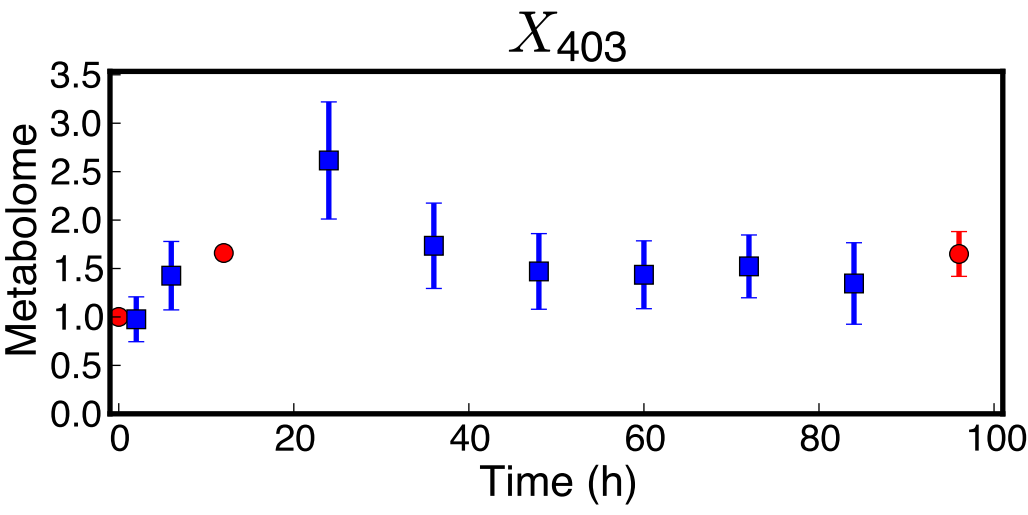

X_{398}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

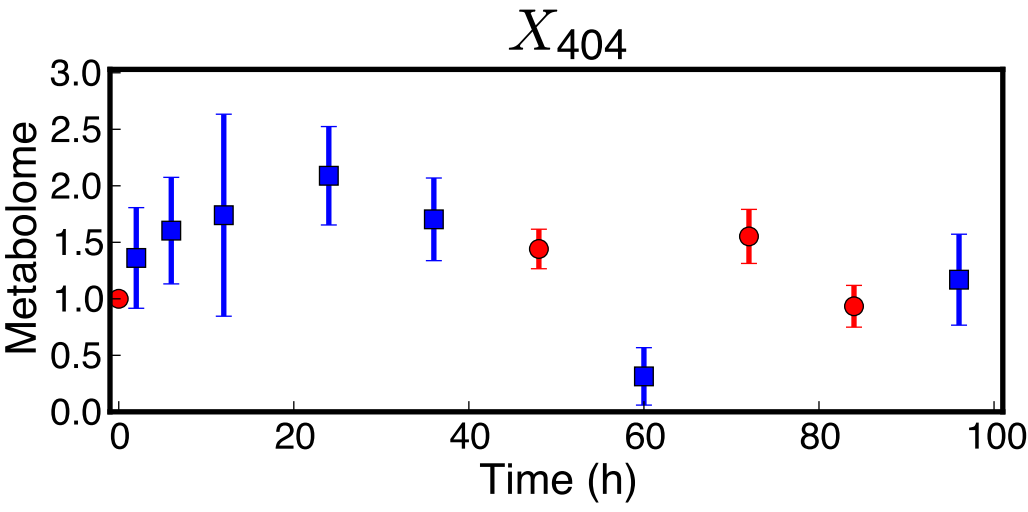

X_{399}
Metabolome
80000
70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
Time (h)

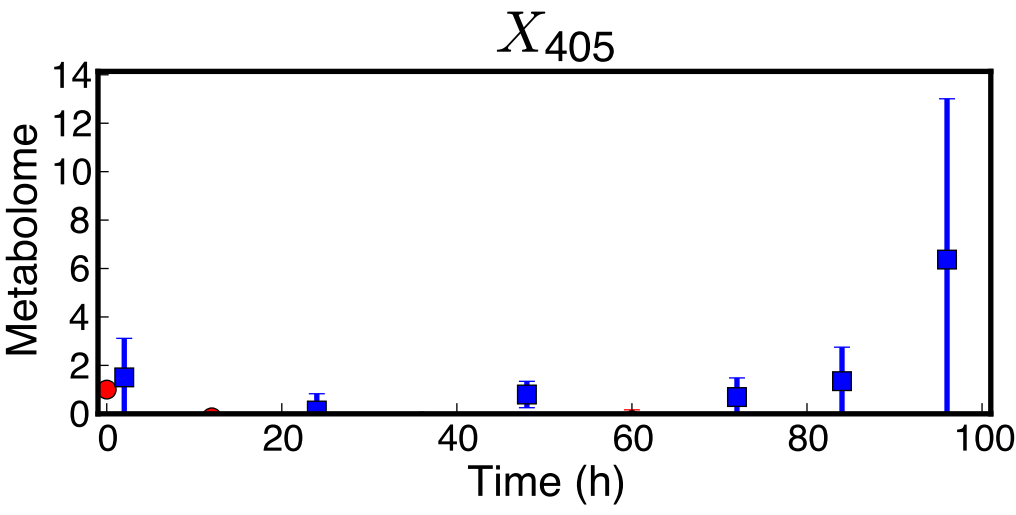

X_{400}
Metabolome
0
2
4
6
8
10
12
14
0
20
40
60
80
100
Time (h)

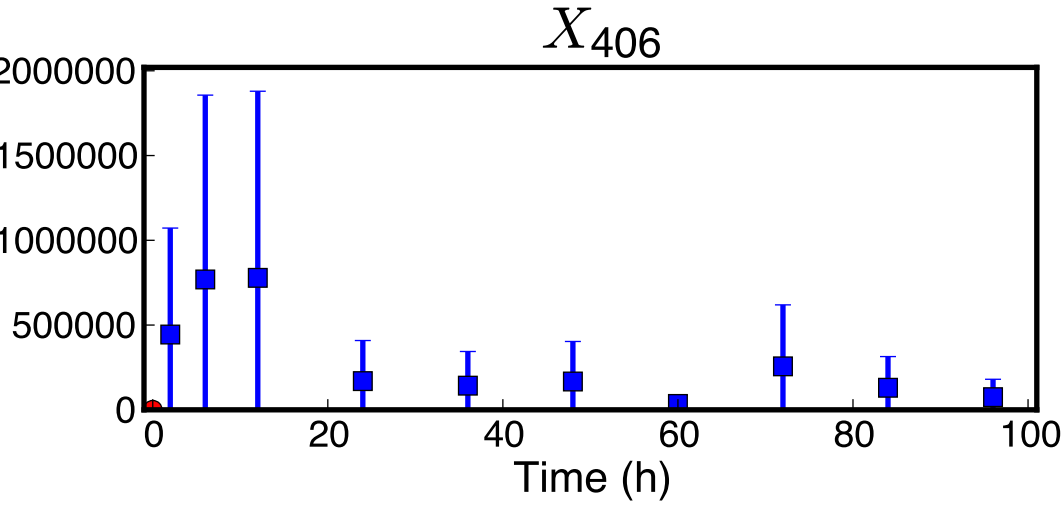

X_{401}
Metabolome
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
Time (h)

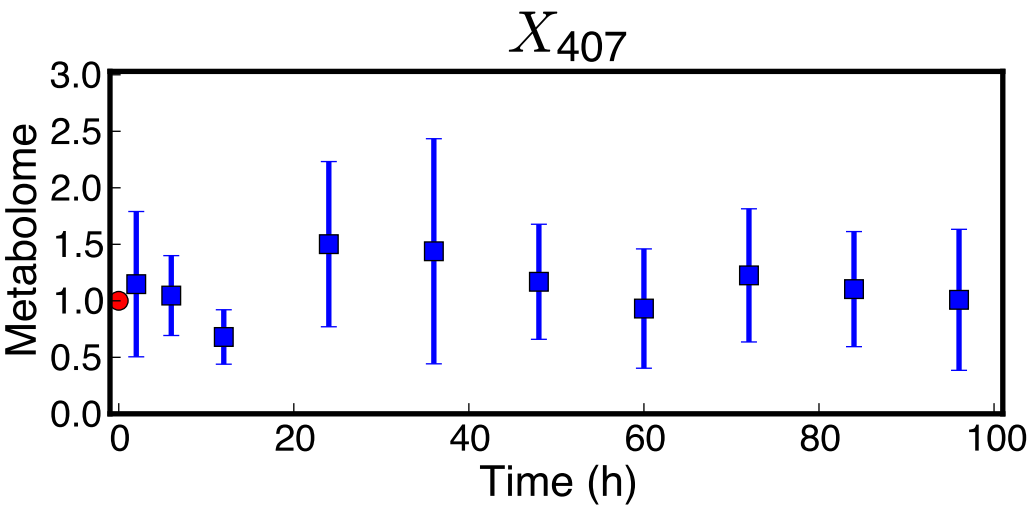

X_{402}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

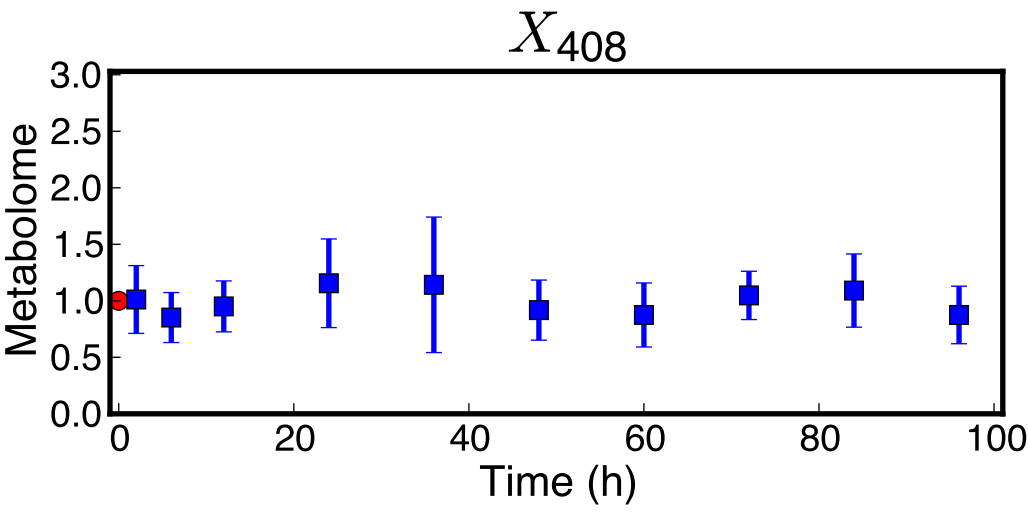

X_{403}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

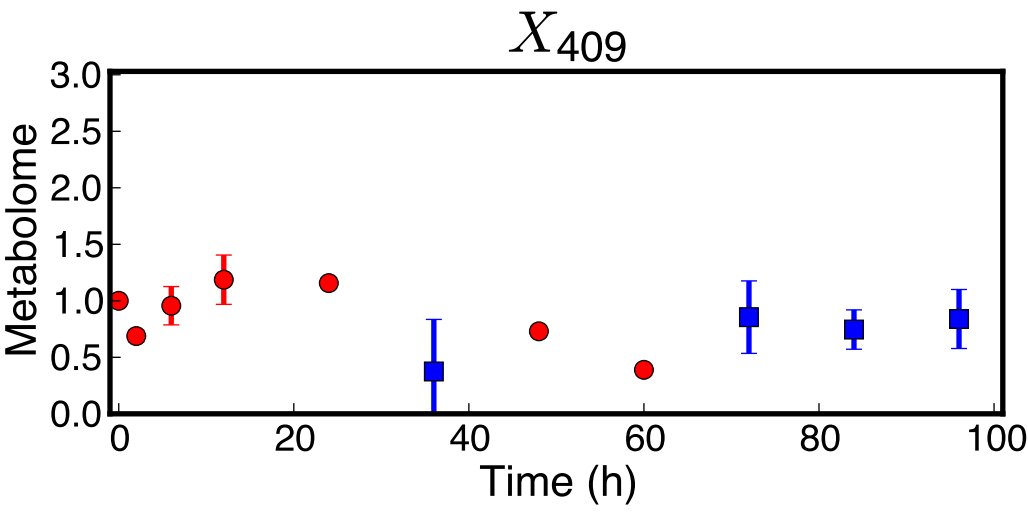

X_{404}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

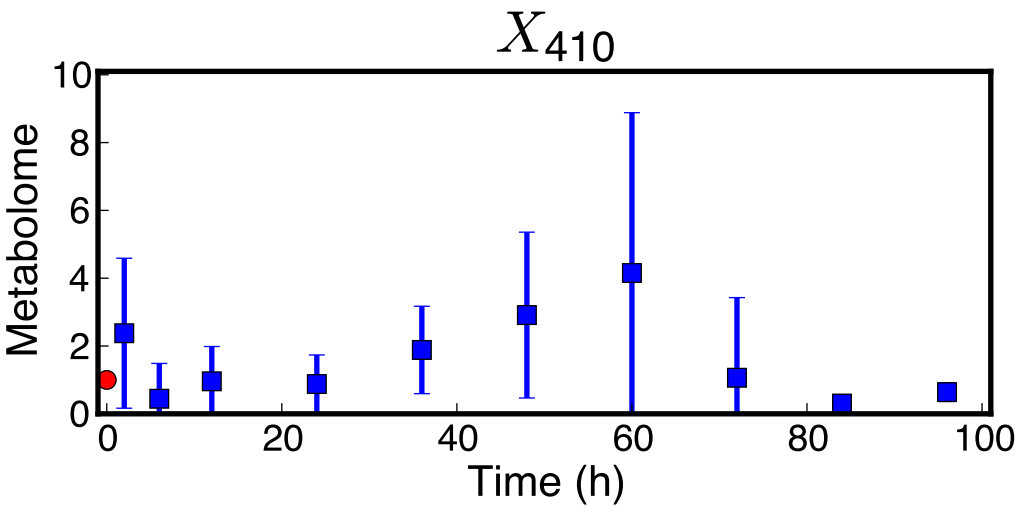

X_{405}
Metabolome
Time (h)
0
2
4
6
8
10
12
14
0
20
40
60
80
100

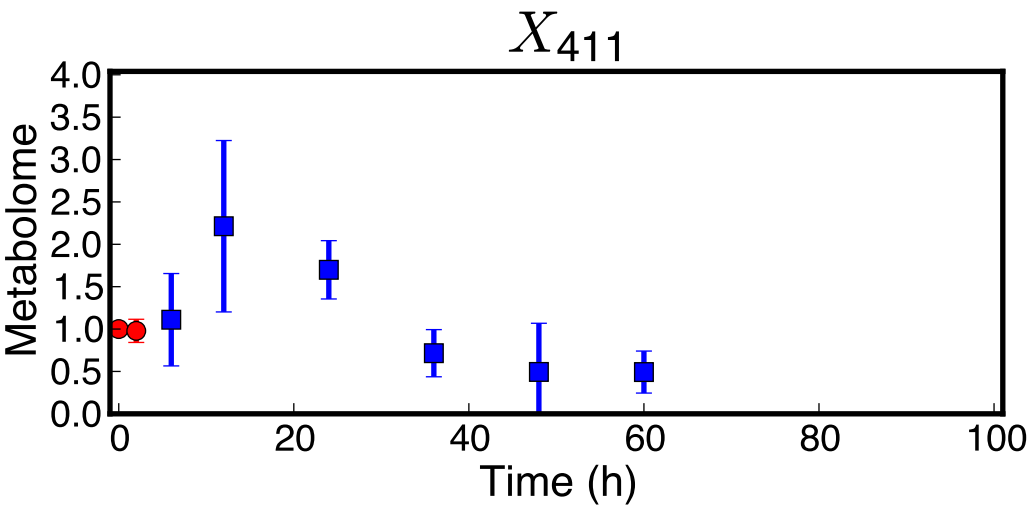

X_{406}
2000000
1500000
1000000
500000
0
0
20
40
60
80
100
Time (h)

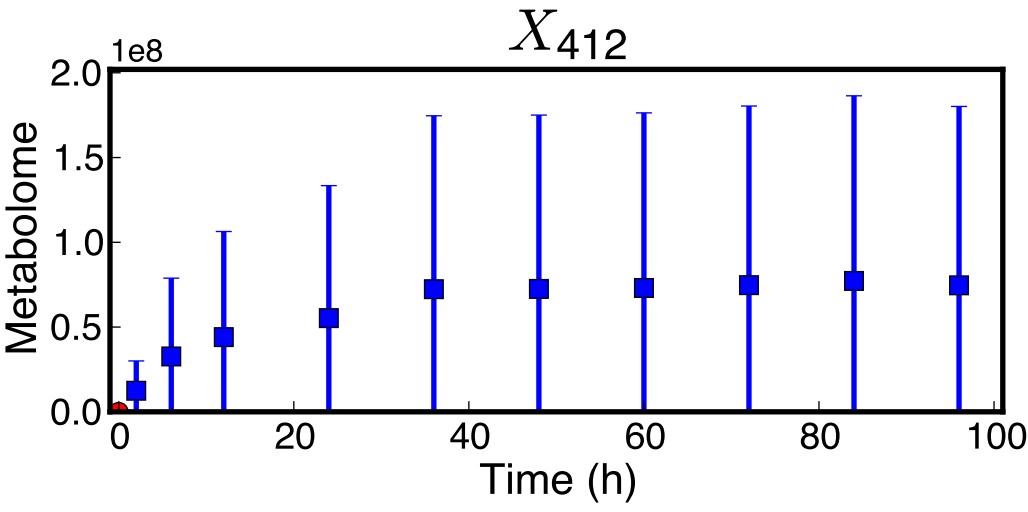

X_{407}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

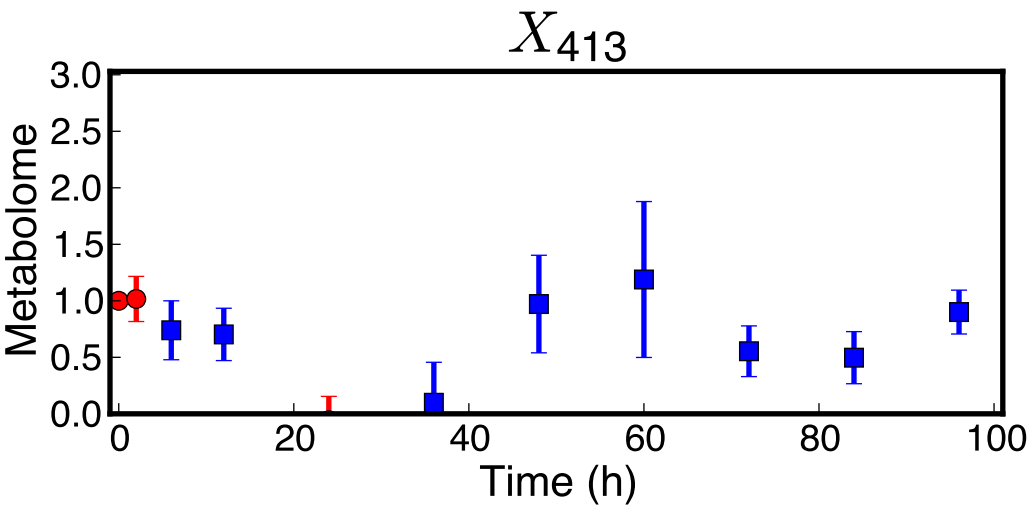

X_{408}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

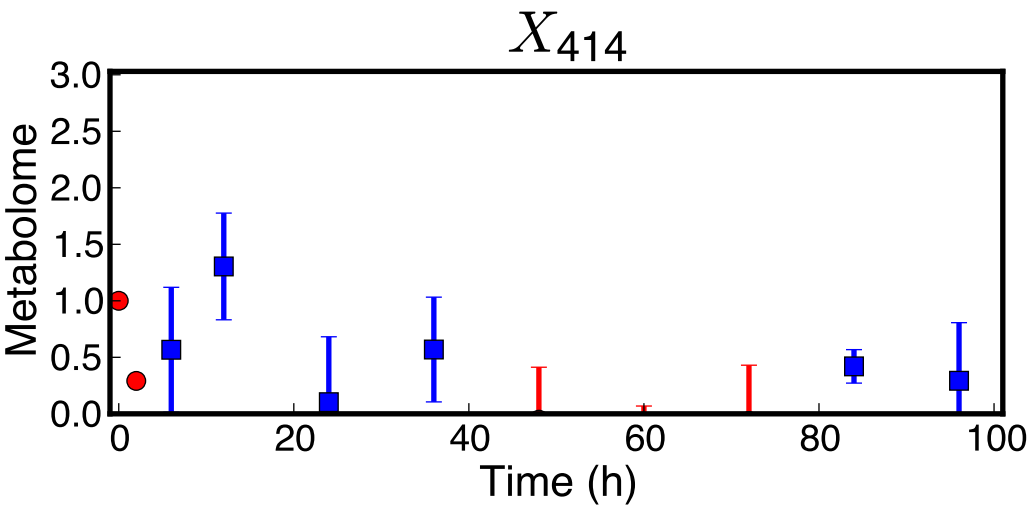

X_{409}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{410}
Metabolome
Time (h)
0
2
4
6
8
10
0
20
40
60
80
100


X_{411}
Metabolome
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{412}
1e8
2.0
1.5
1.0
0.5
0.0
Metabolome
0
20
40
60
80
100
Time (h)


X_{413}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{414}
Metabolome
3.0
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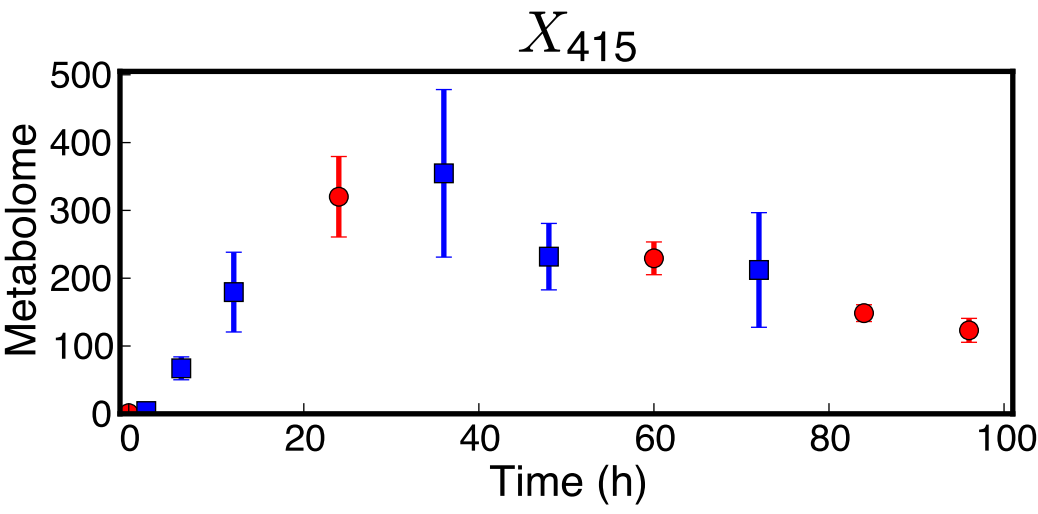
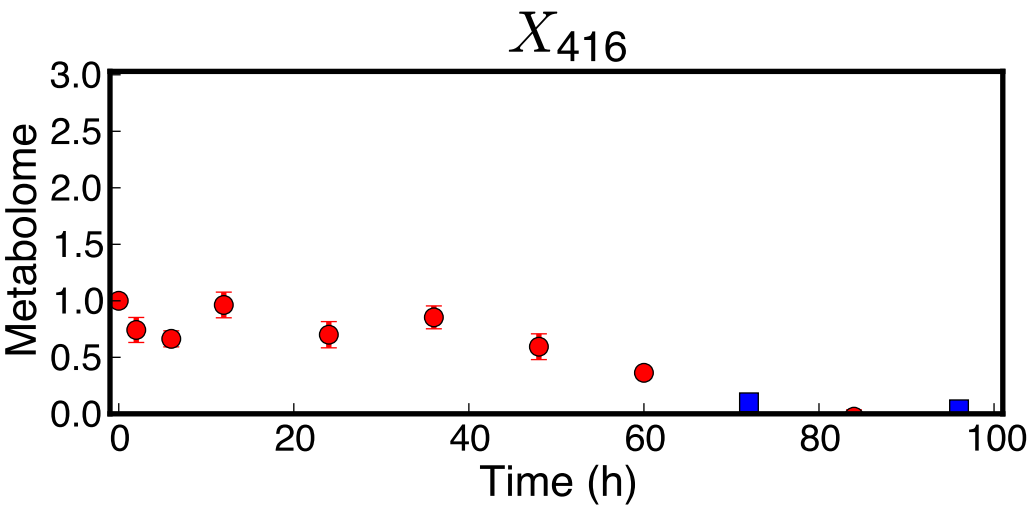
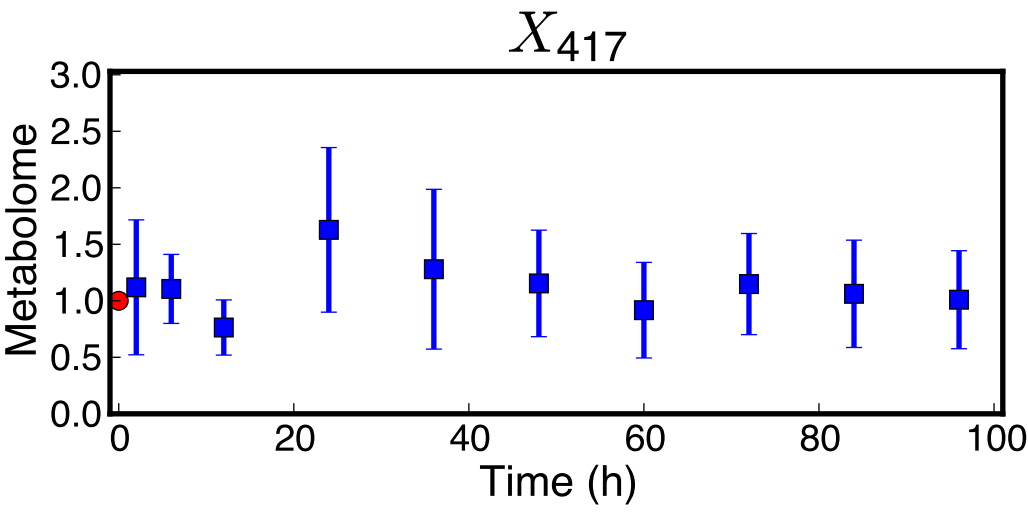
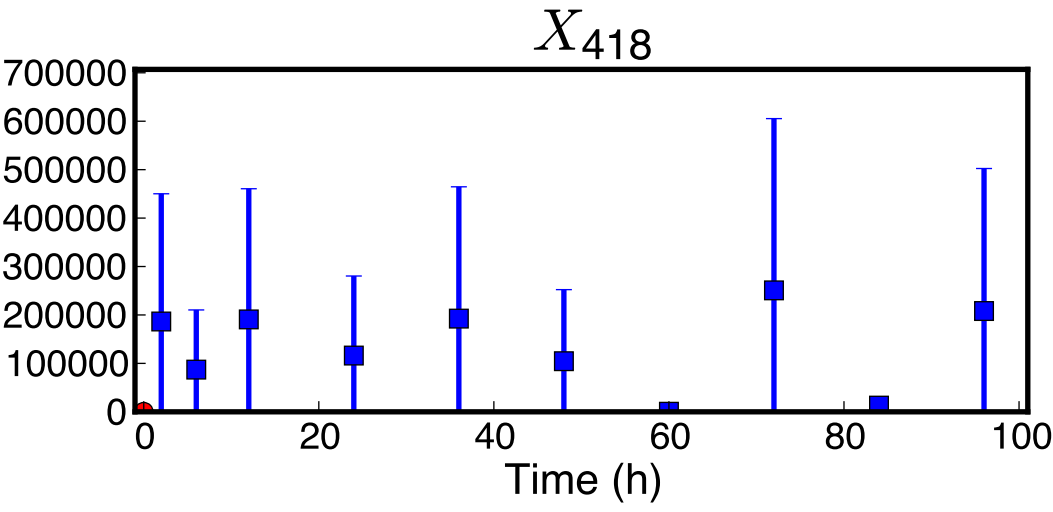
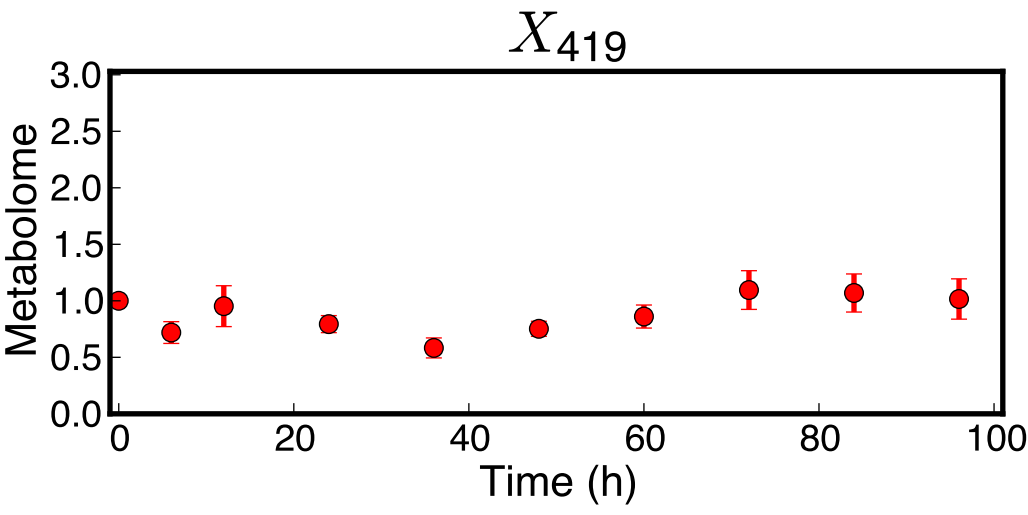
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{415}
Metabolome
500
400
300
200
100
0
0
20
40
60
80
100
Time (h)


X_{416}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{417}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{418}
700000
600000
500000
400000
300000
200000
100000
0
0
20
40
60
80
100
Time (h)


X_{419}
Metabolome
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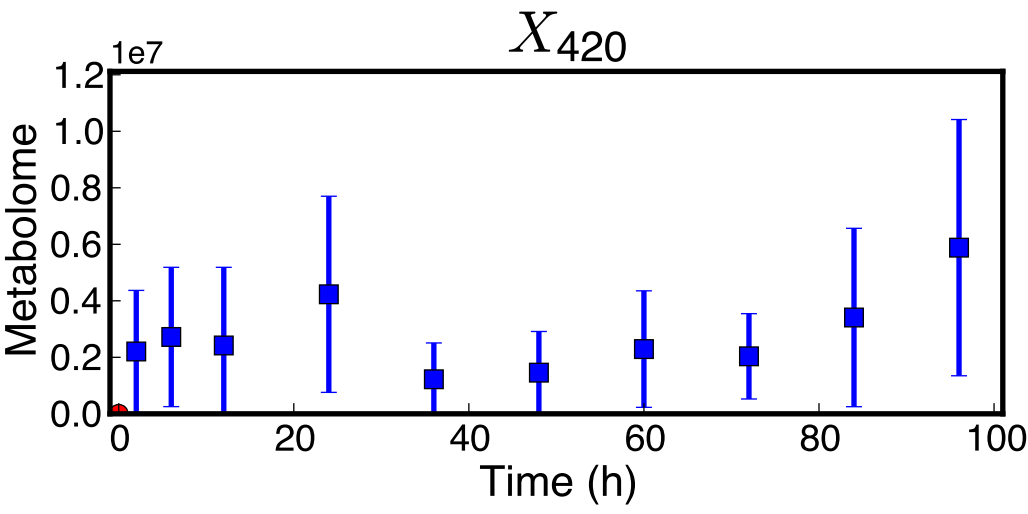
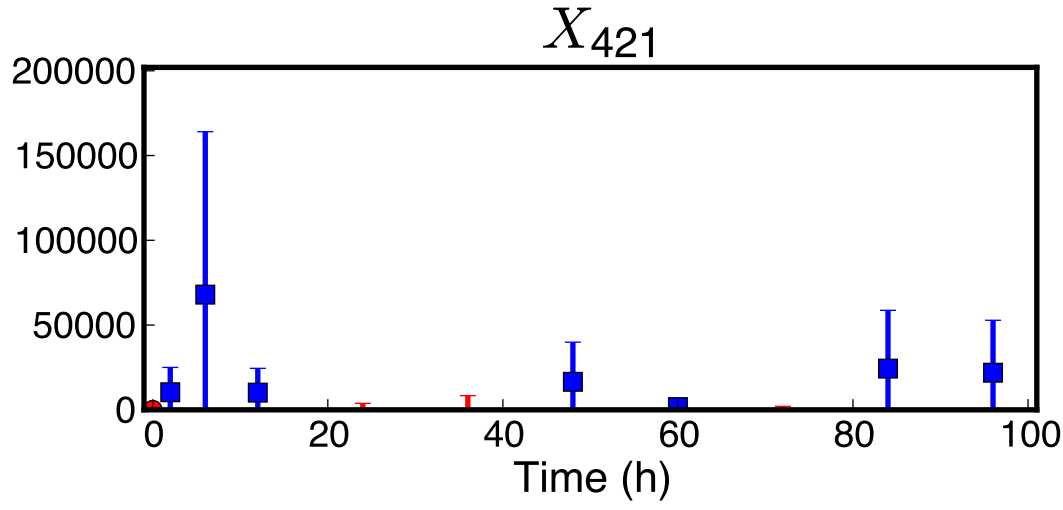
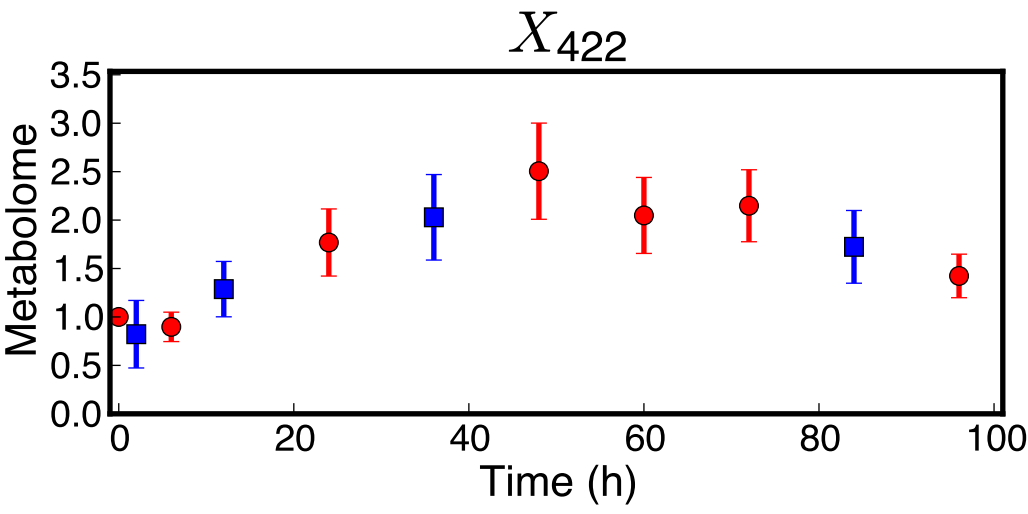
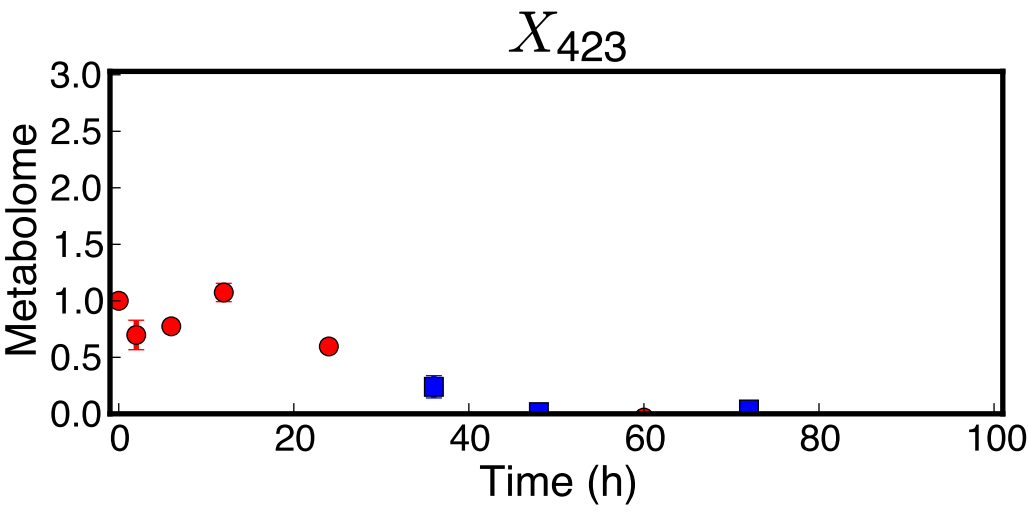
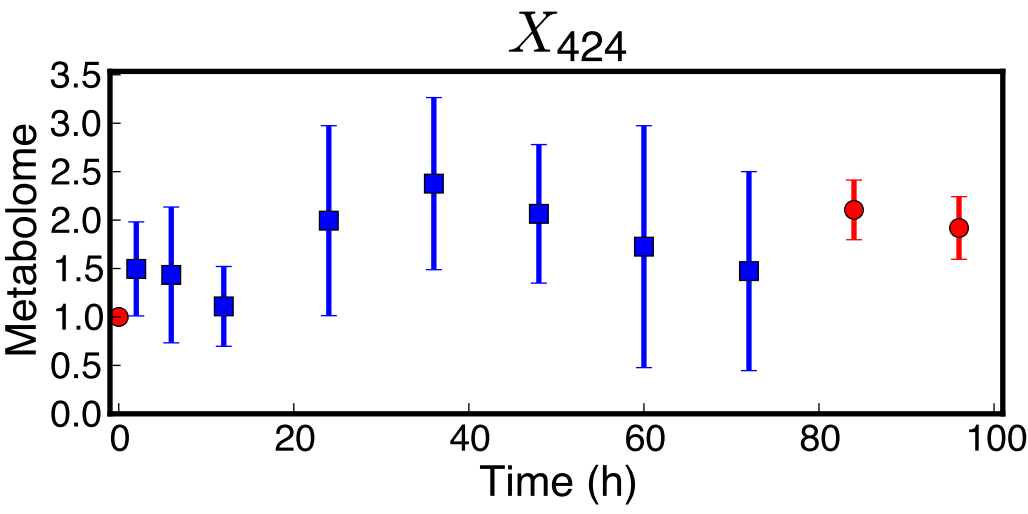
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{420}
1e7
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Metabolome
0
20
40
60
80
100
Time (h)


X_{421}
200000
150000
100000
50000
0
0
20
40
60
80
100
Time (h)


X_{422}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{423}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{424}
Metabolome
3.5
3.0
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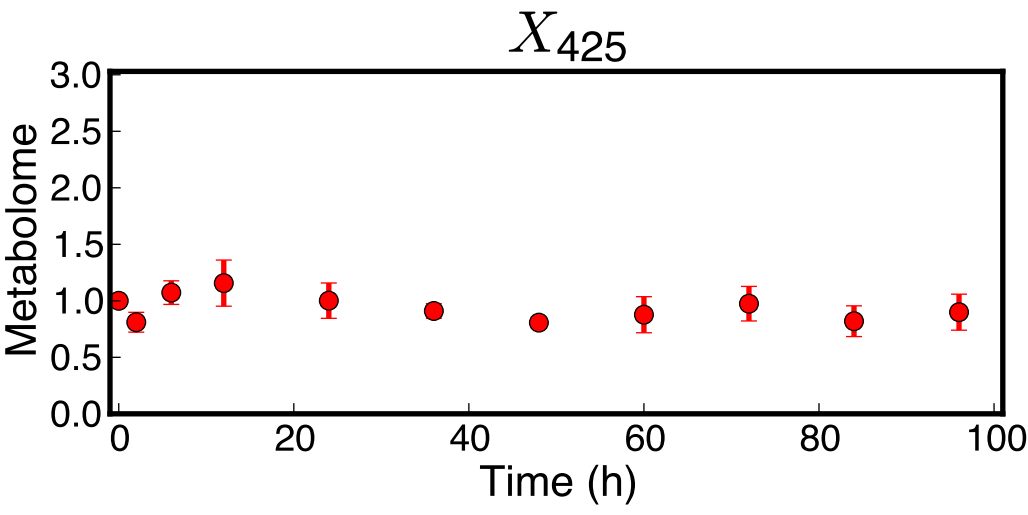
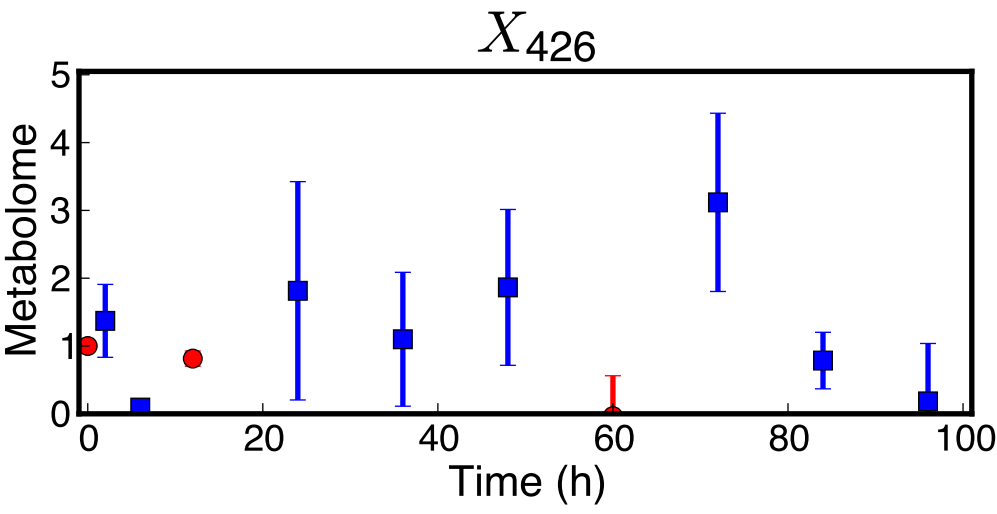
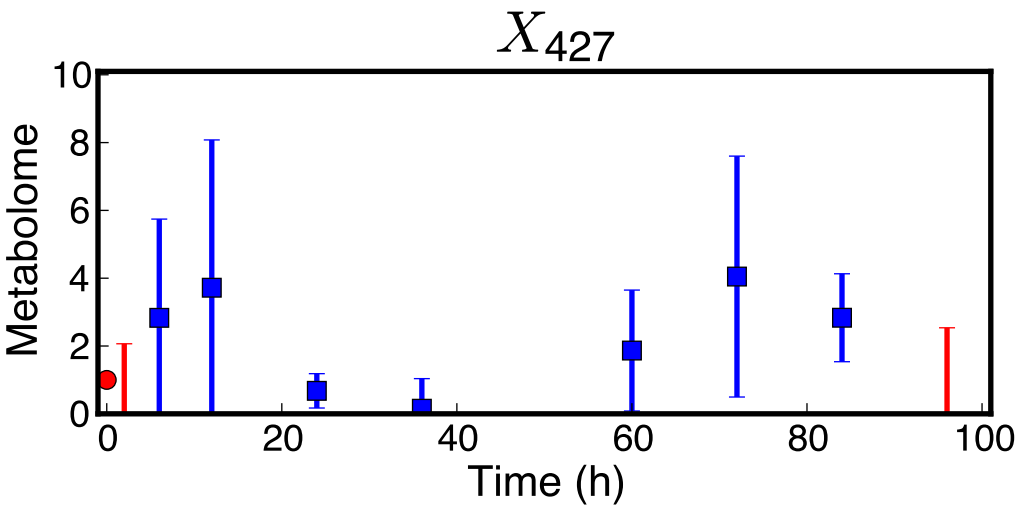
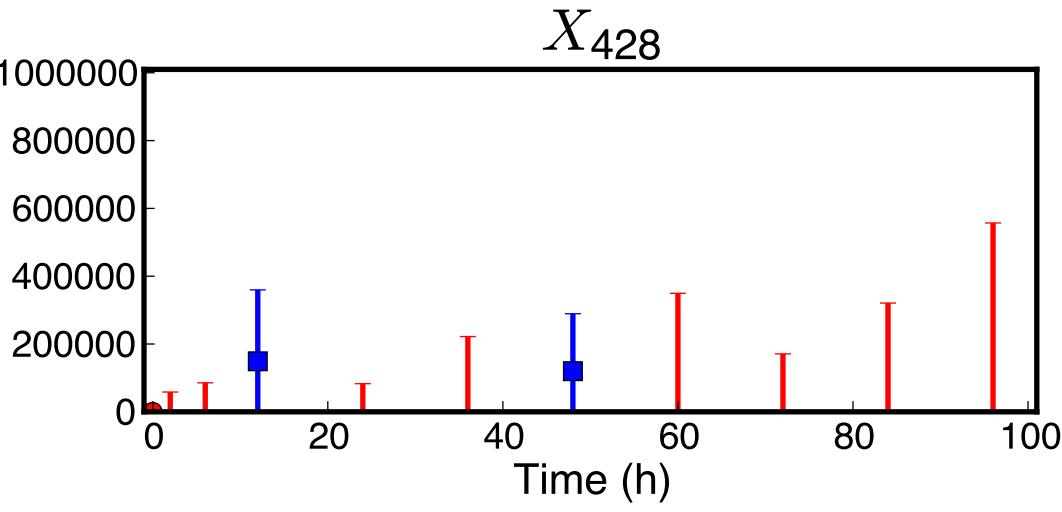
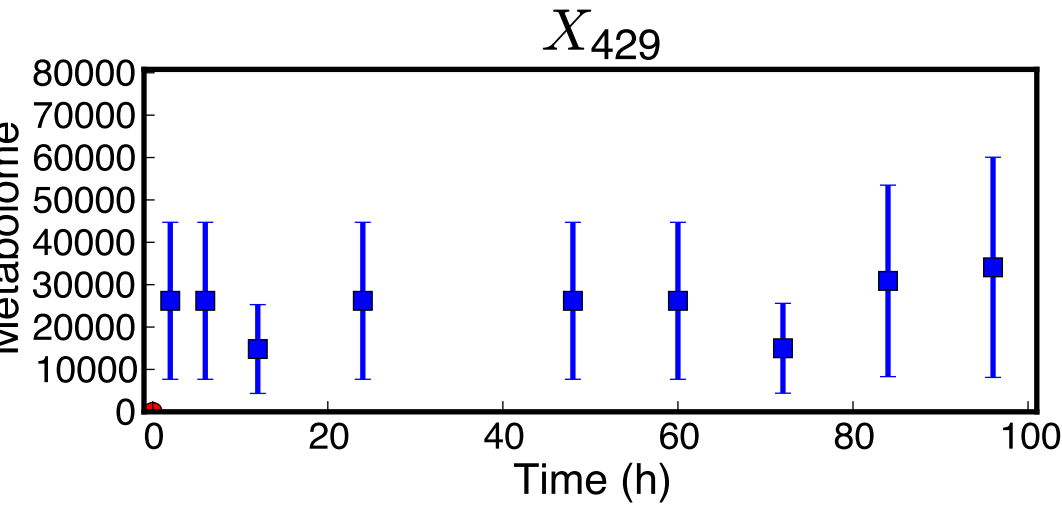
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

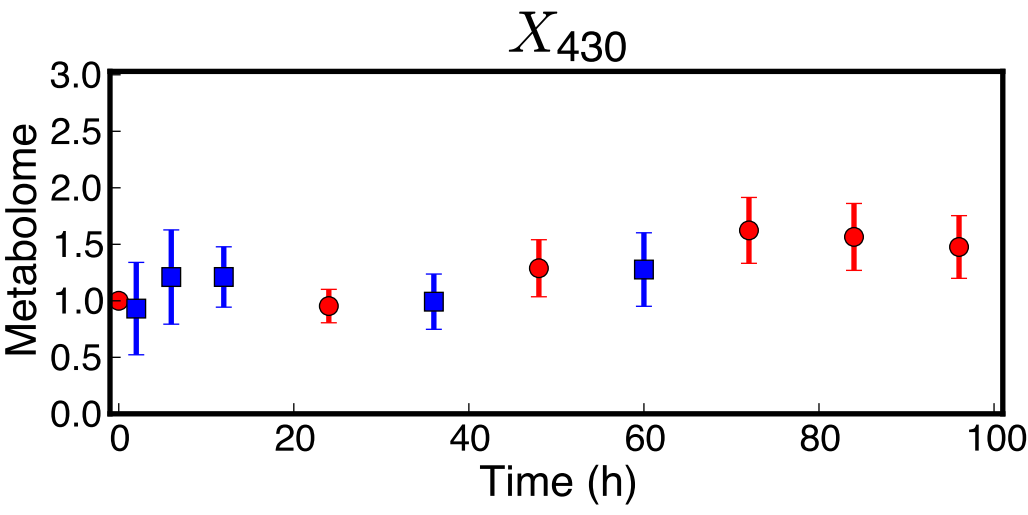

X_{425}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{426}
Metabolome
Time (h)
0
1
2
3
4
5
0
20
40
60
80
100


X_{427}
Metabolome
Time (h)
0
2
4
6
8
10
0
20
40
60
80
100


X_{428}
1000000
800000
600000
400000
200000
0
0
20
40
60
80
100
Time (h)


X_{429}
Metabolome
80000
70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
Time (h)


X_{430}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
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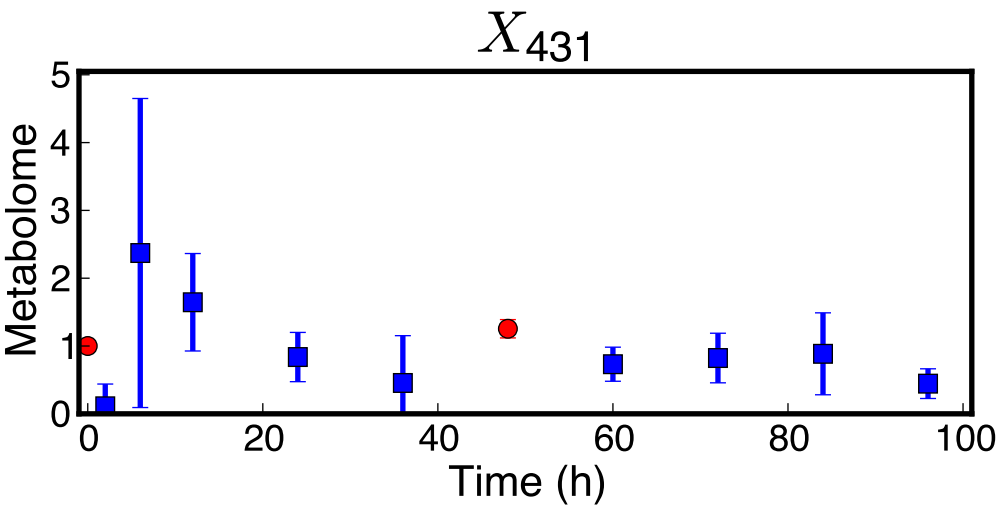
60
80
100
Time (h)


X_{431}
Metabolome
Time (h)
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2
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4
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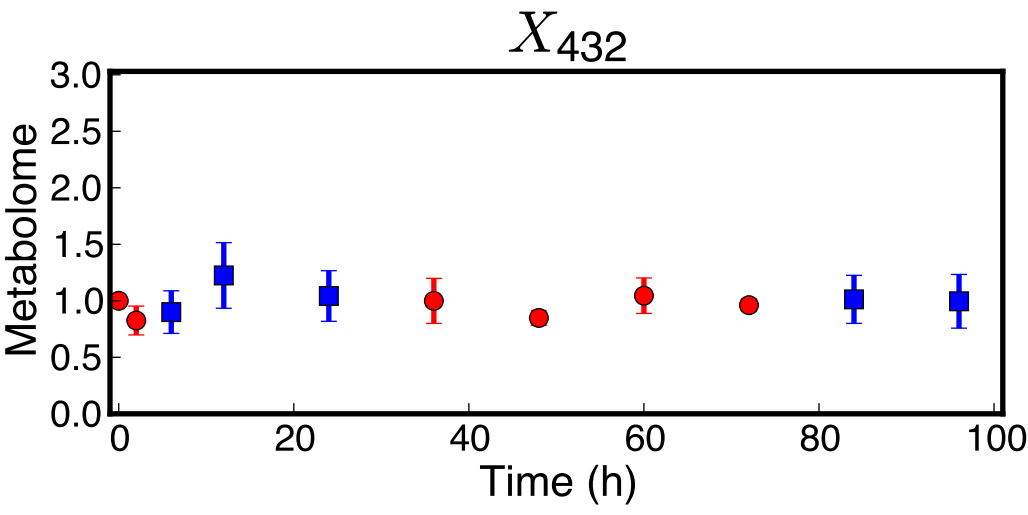
80
100


X_{432}
Metabolome
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2.0
1.5
1.0
0.5
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0
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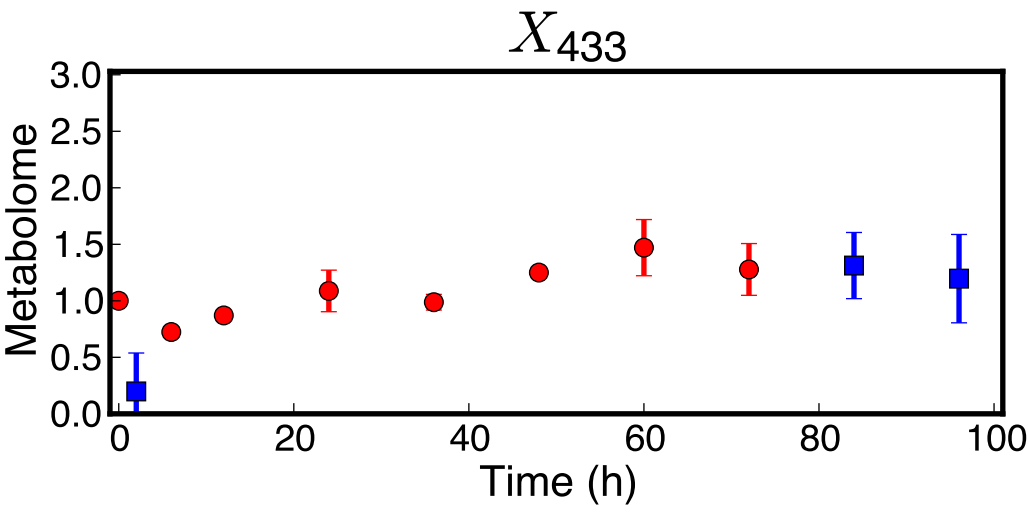
80
100
Time (h)


X_{433}
Metabolome
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2.0
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1.0
0.5
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0
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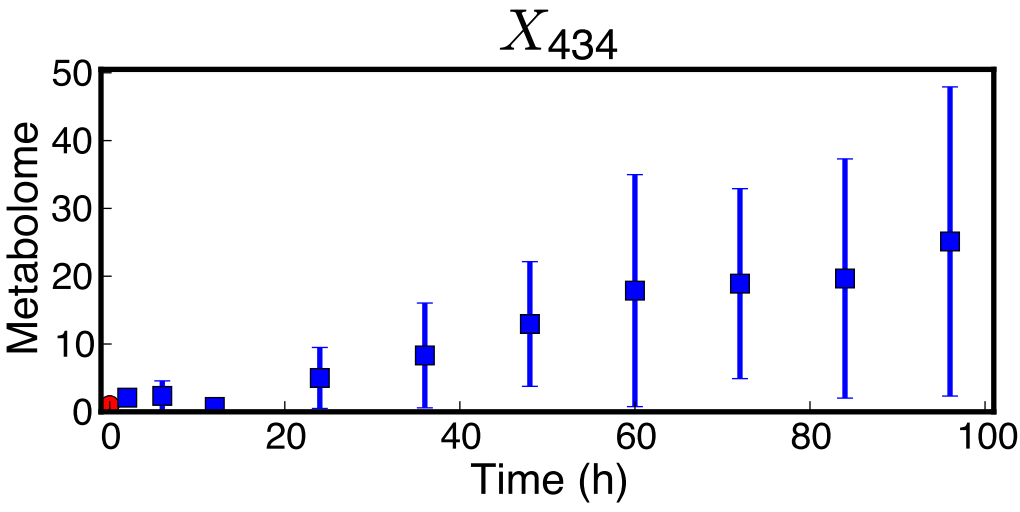
Time (h)


X_{434}
Metabolome
Time (h)
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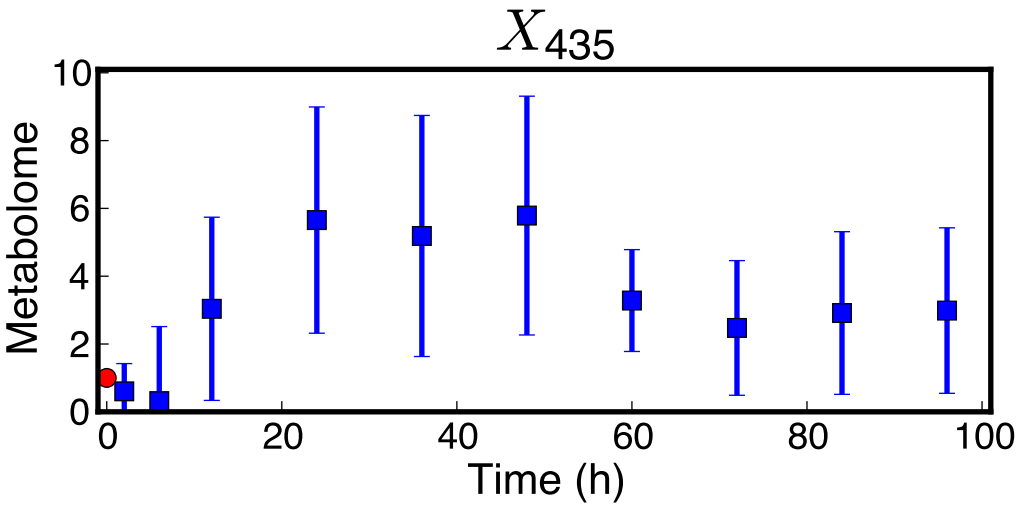
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Metabolome
Time (h)
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8
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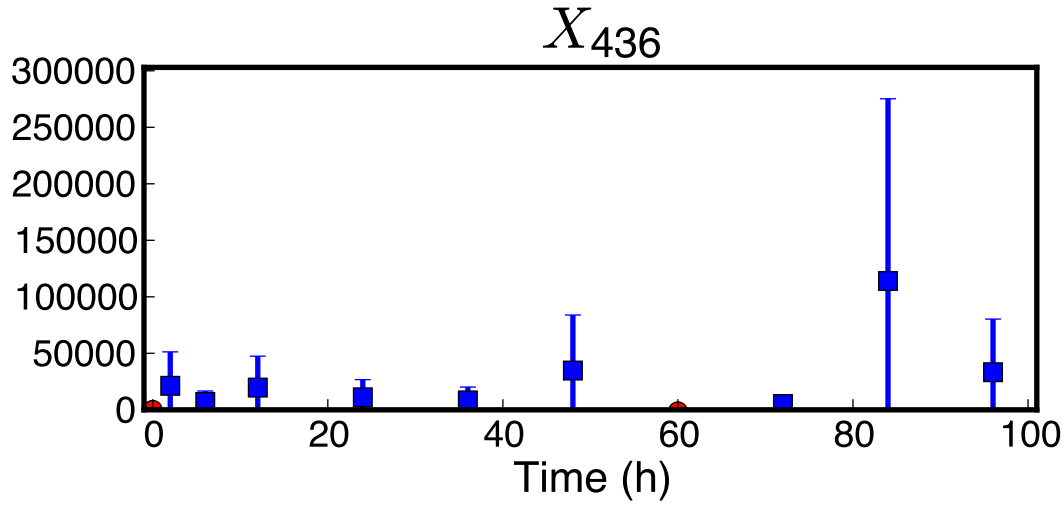
80
100


X_{436}
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50000
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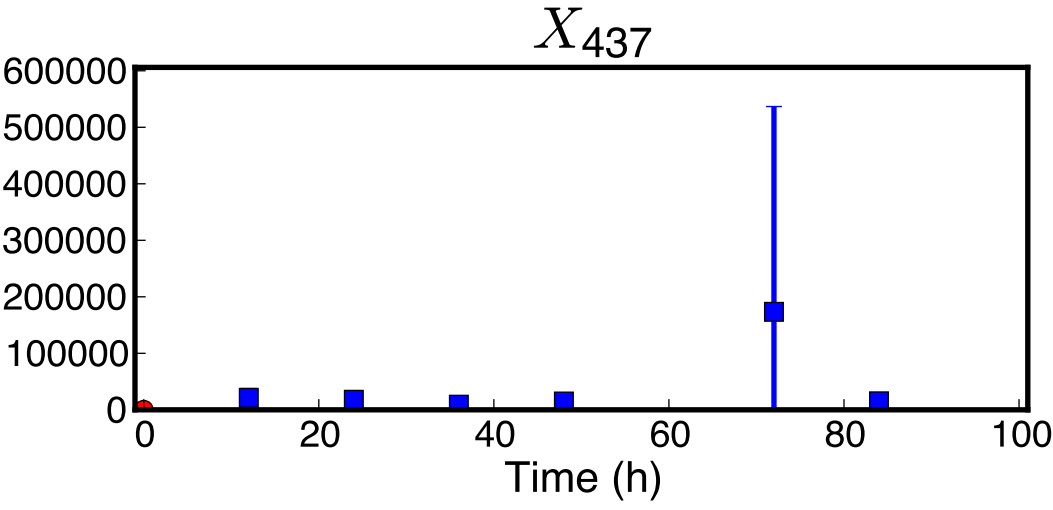
80
100
Time (h)


X_{437}
600000
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400000
300000
200000
100000
0
0
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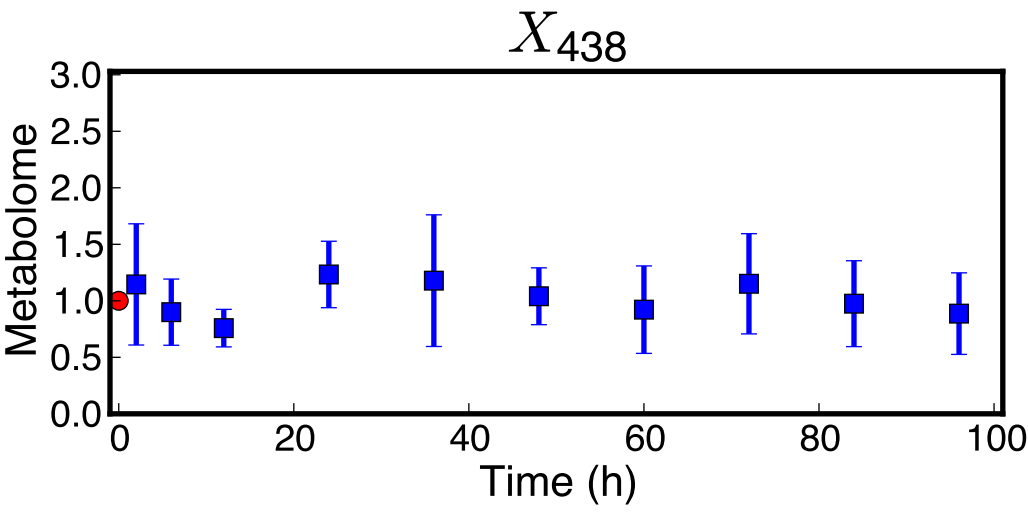
60
80
100
Time (h)


X_{438}
Metabolome
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2.0
1.5
1.0
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0
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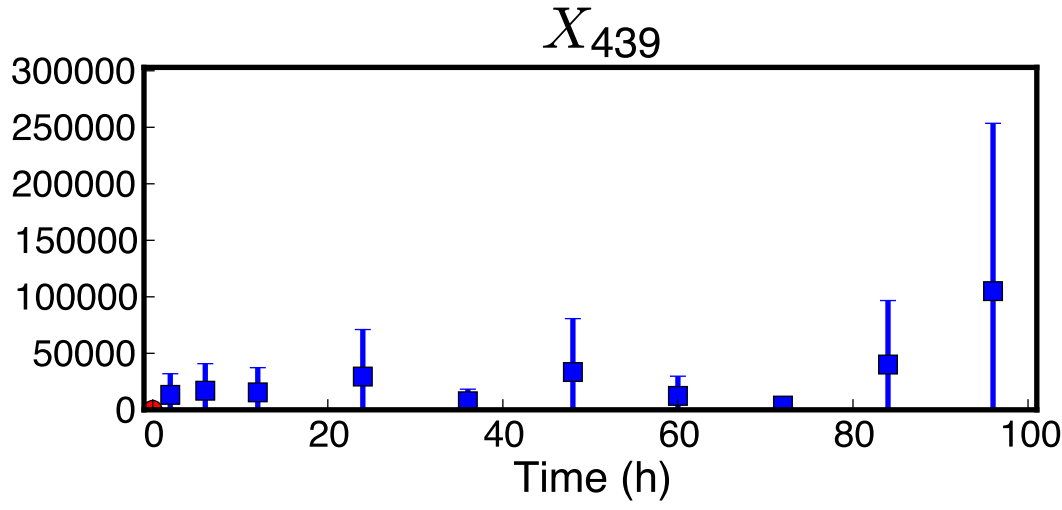
80
100
Time (h)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50000
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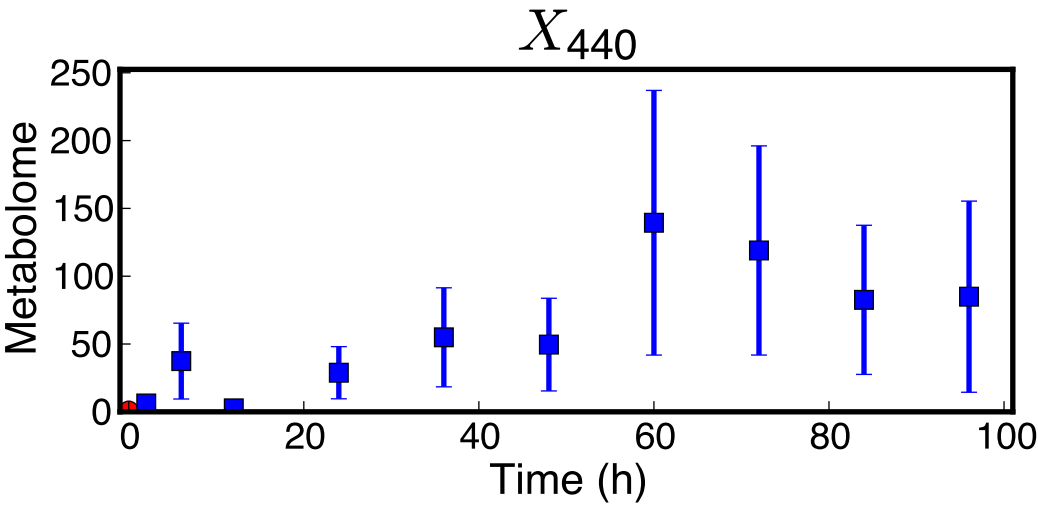
80
100
Time (h)


X_{440}
Metabolome
250
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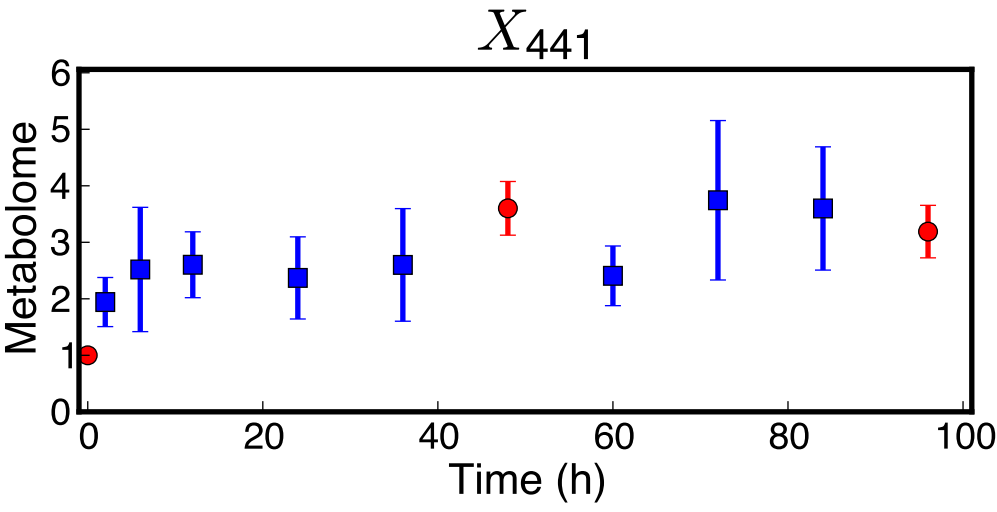
150
100
50
0
0
20
40
60
80
100
Time (h)


X_{441}
Metabolome
0
1
2
3
4
5
6
0
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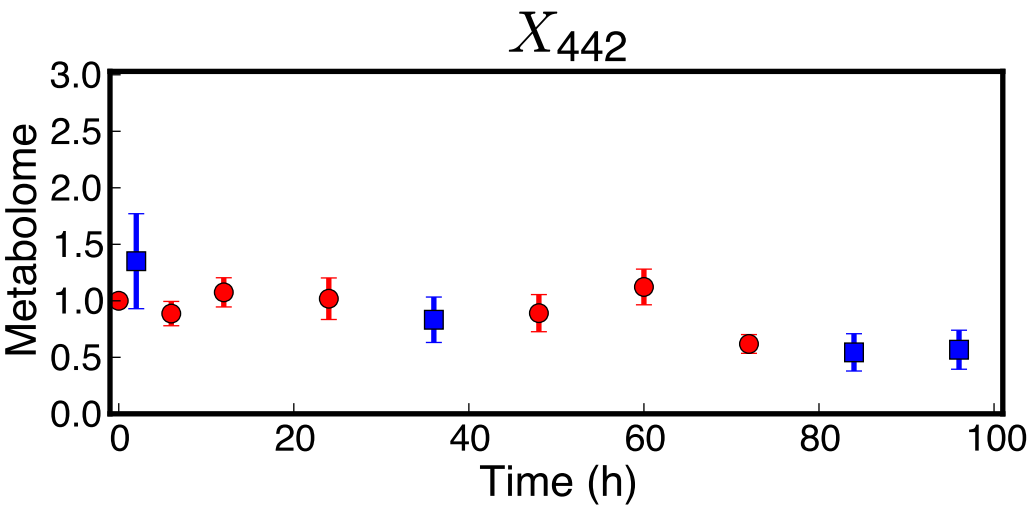
40
60
80
100
Time (h)


X_{442}
Metabolome
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0.0
0
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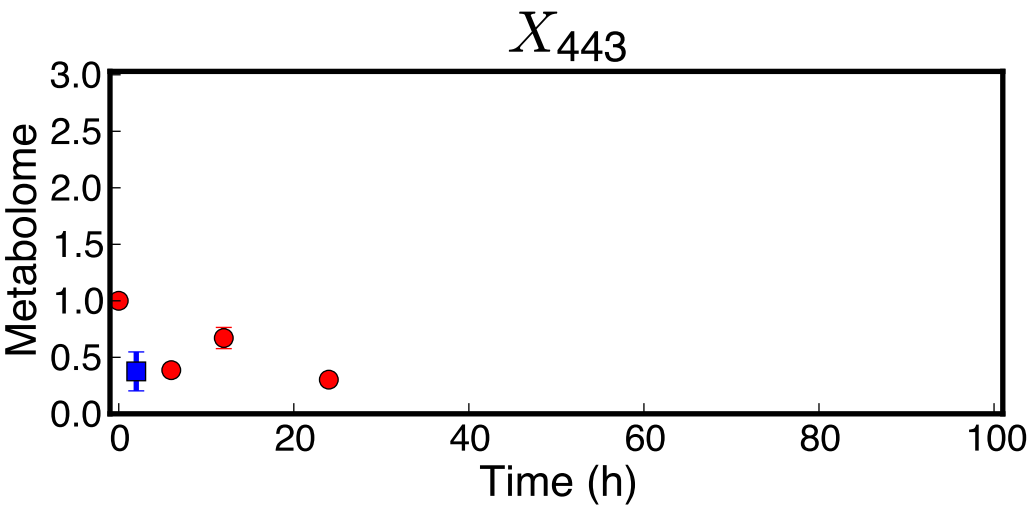
40
60
80
100
Time (h)


X_{443}
Metabolome
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2.0
1.5
1.0
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0.0
0
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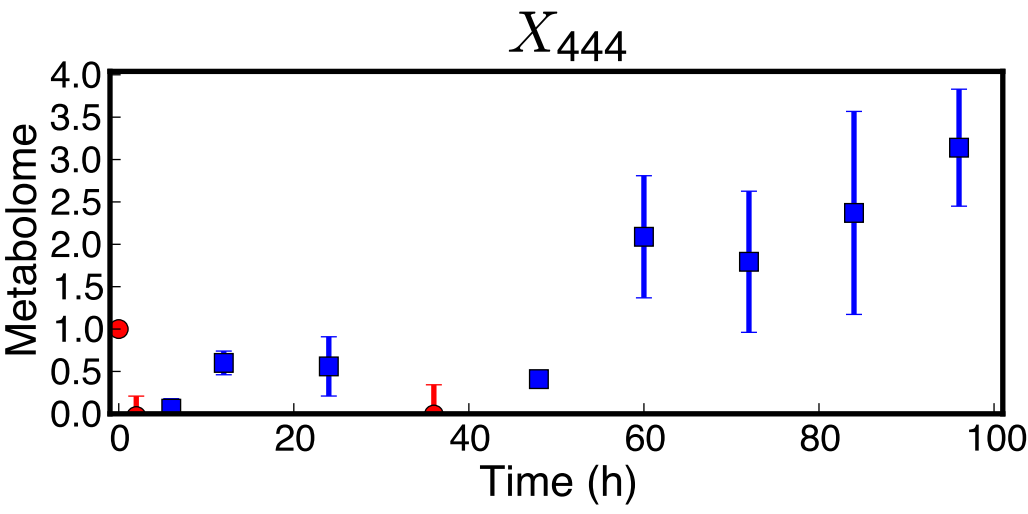
60
80
100
Time (h)


X_{444}
Metabolome
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
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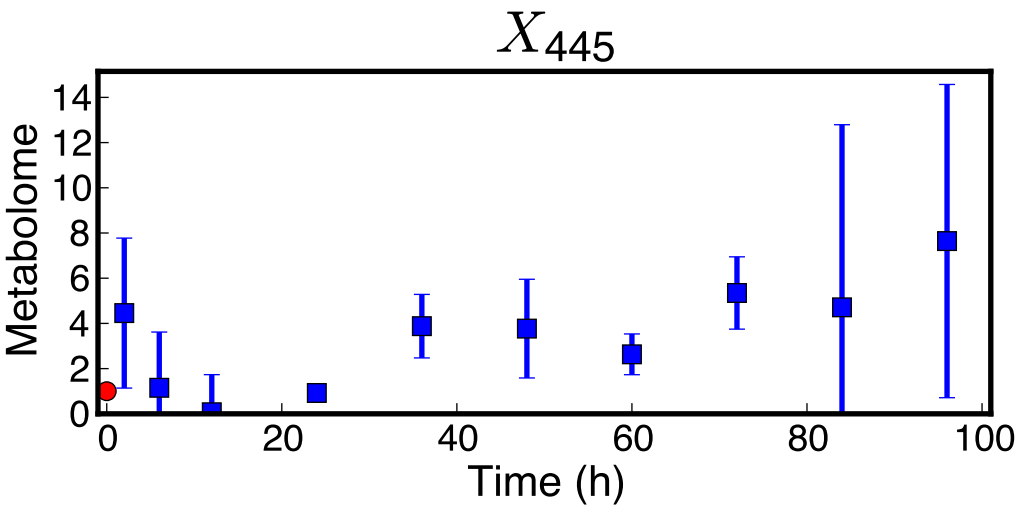
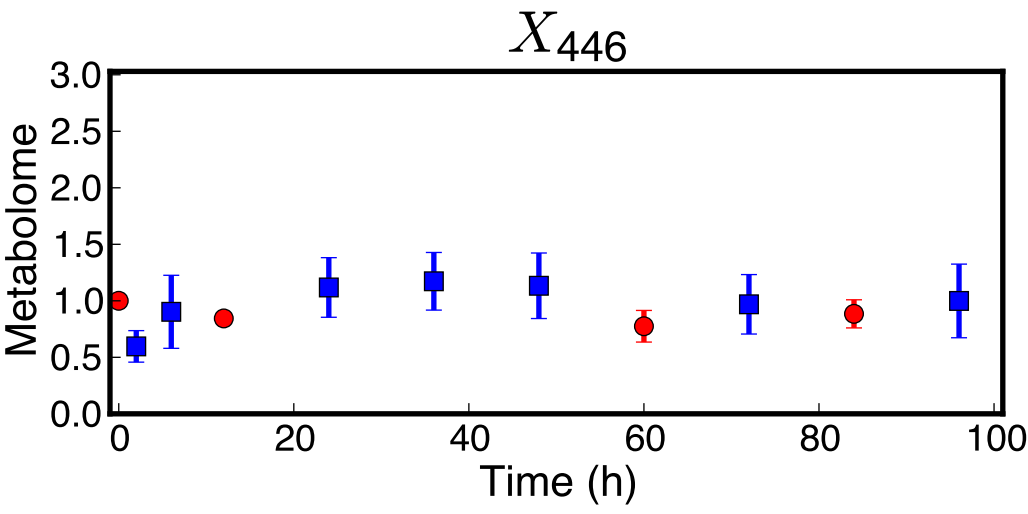
60
80
100
Time (h)


X_{445}
Metabolome
0
2
4
6
8
10
12
14
0
20
40
60
80
100
Time (h)


X_{446}
Metabolome
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2.0
1.5
1.0
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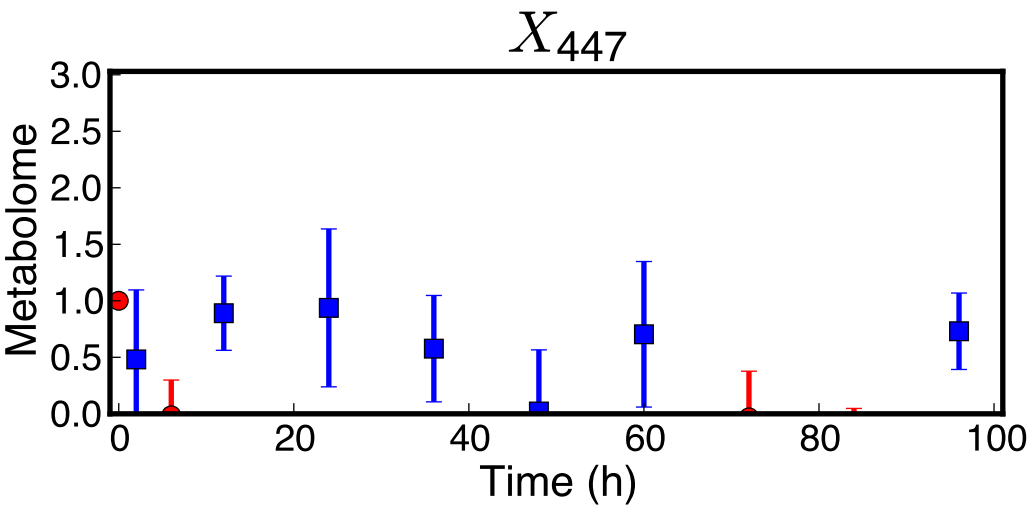
80
100
Time (h)


X_{447}
Metabolome
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2.0
1.5
1.0
0.5
0.0
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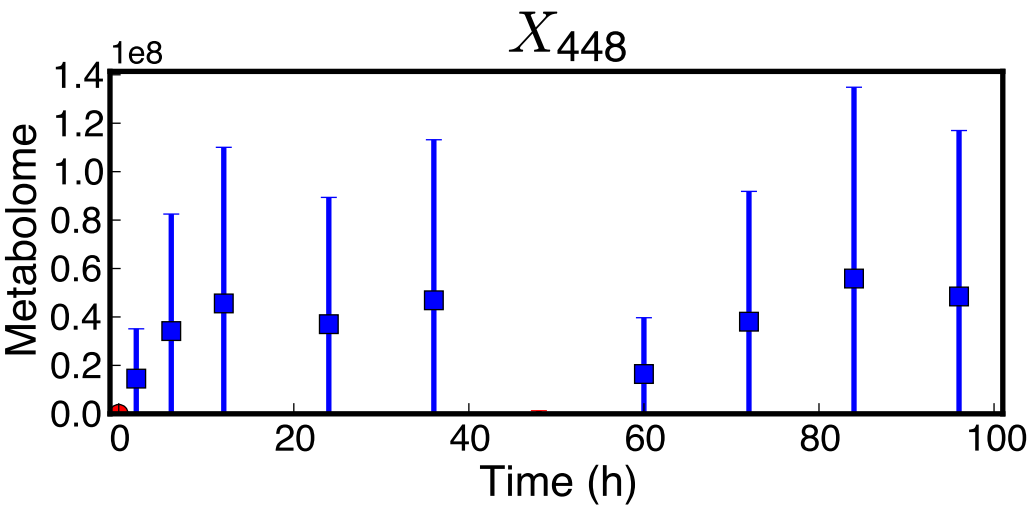
60
80
100
Time (h)


X_{448}
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1.4
1.2
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0.8
0.6
0.4
0.2
0.0
Metabolome
0
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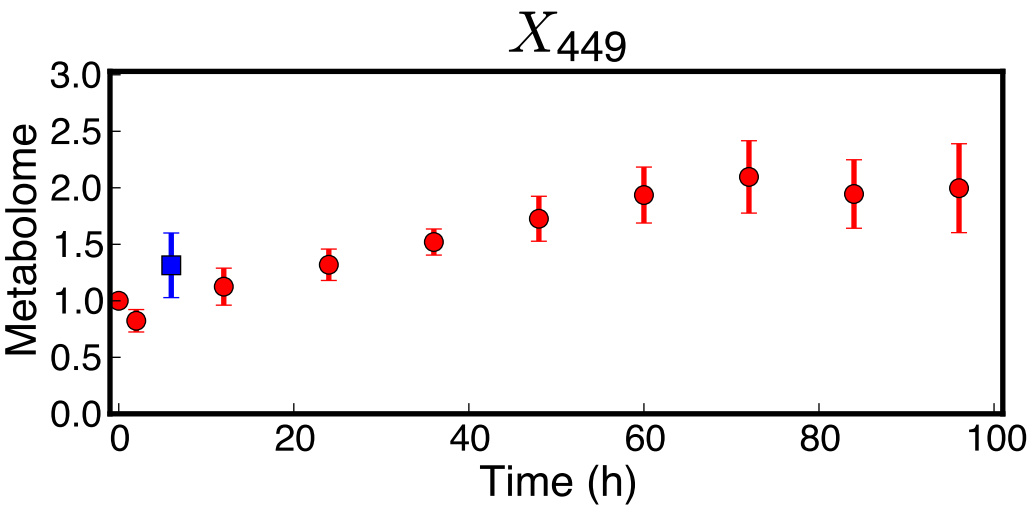
40
60
80
100
Time (h)


X_{449}
Metabolome
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1.0
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80
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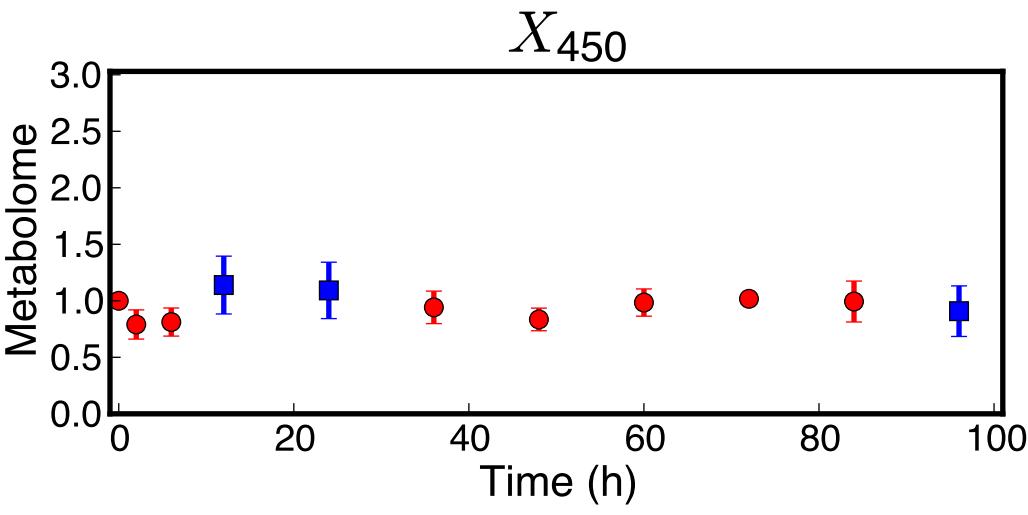
Time (h)


X_{450}
Metabolome
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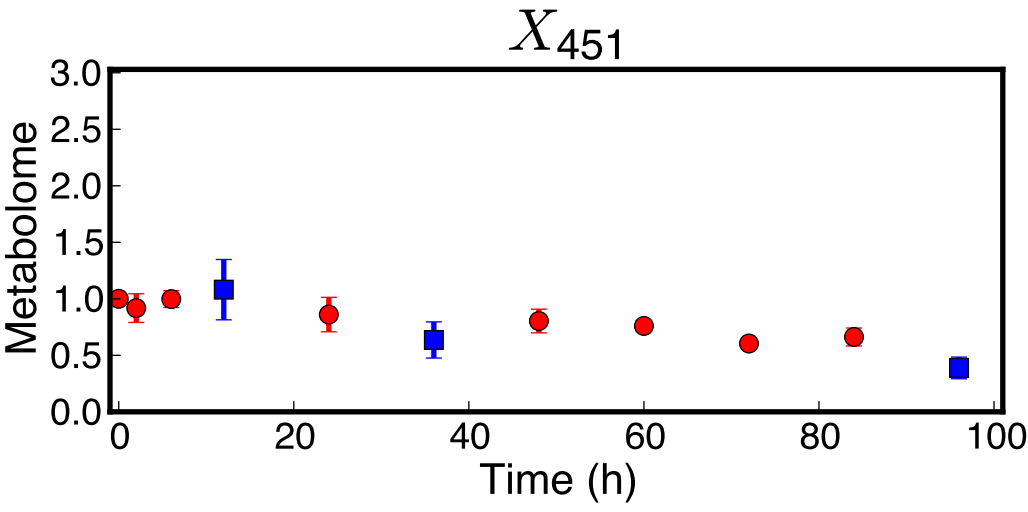
Time (h)


X_{451}
Metabolome
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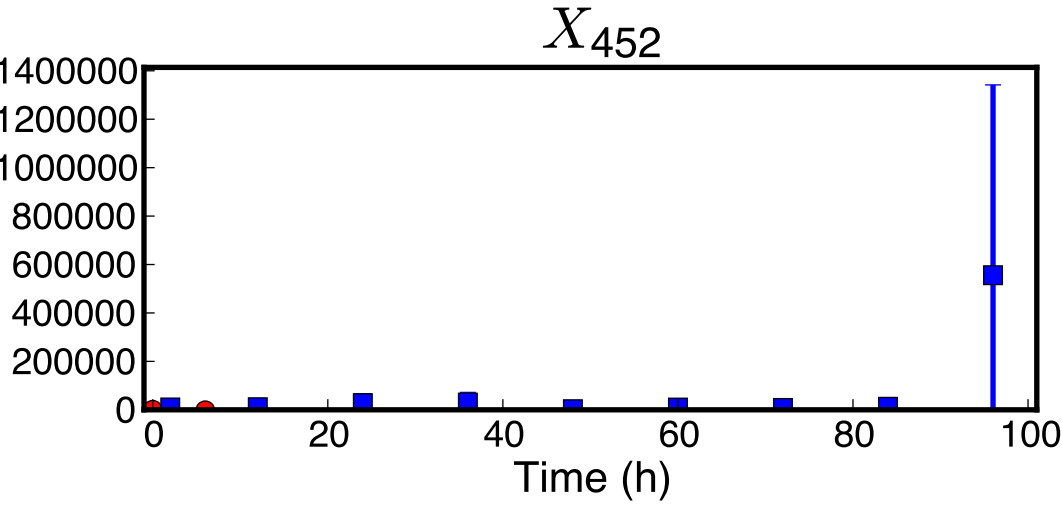
80
100
Time (h)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800000
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400000
200000
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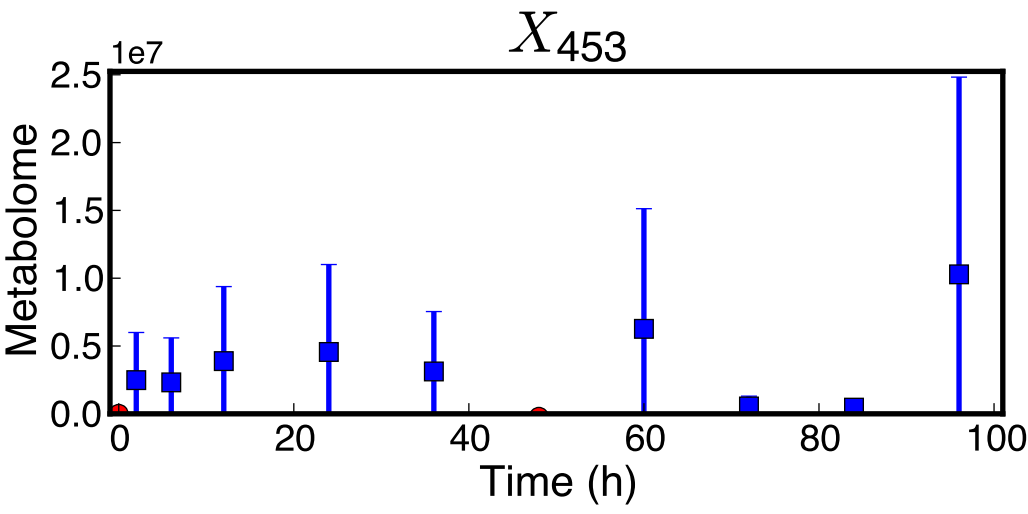
60
80
100
Time (h)


X_{453}
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1.5
1.0
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0.0
Metabolome
0
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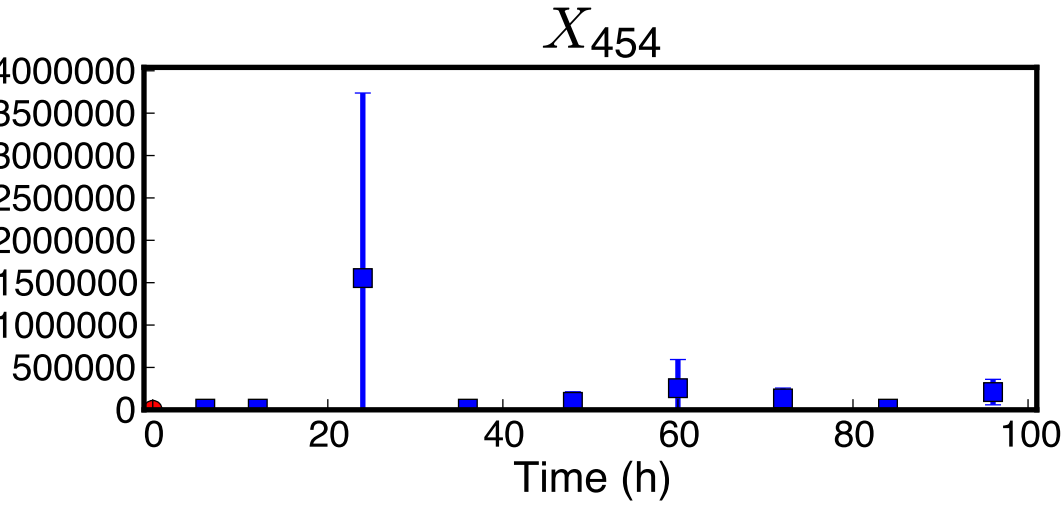
80
100
Time (h)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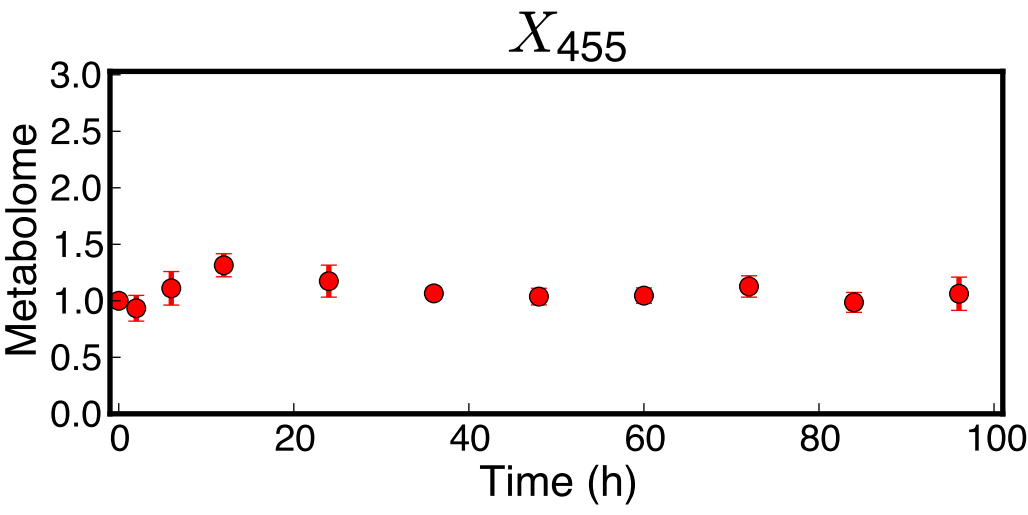
100
Time (h)


X_{455}
Metabolome
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80
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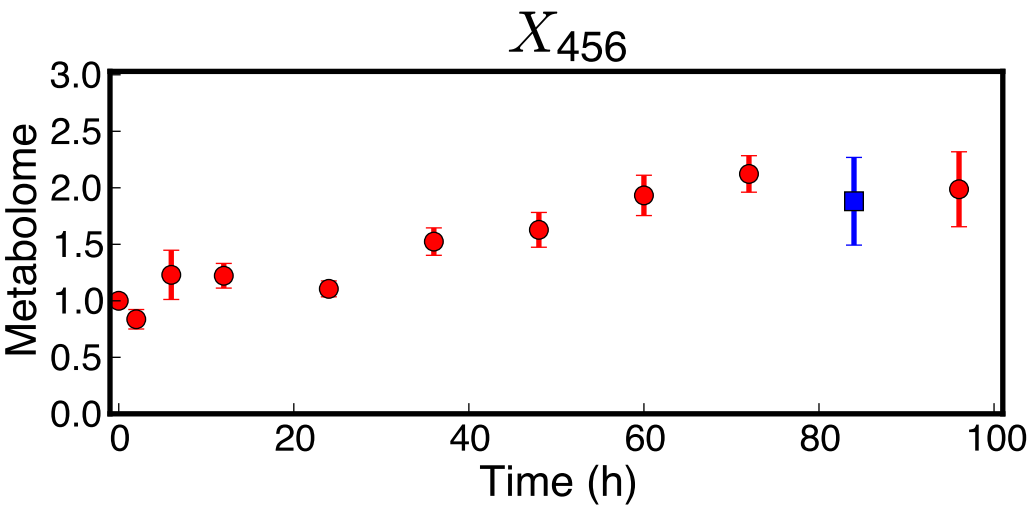
Time (h)


X_{456}
Metabolome
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80
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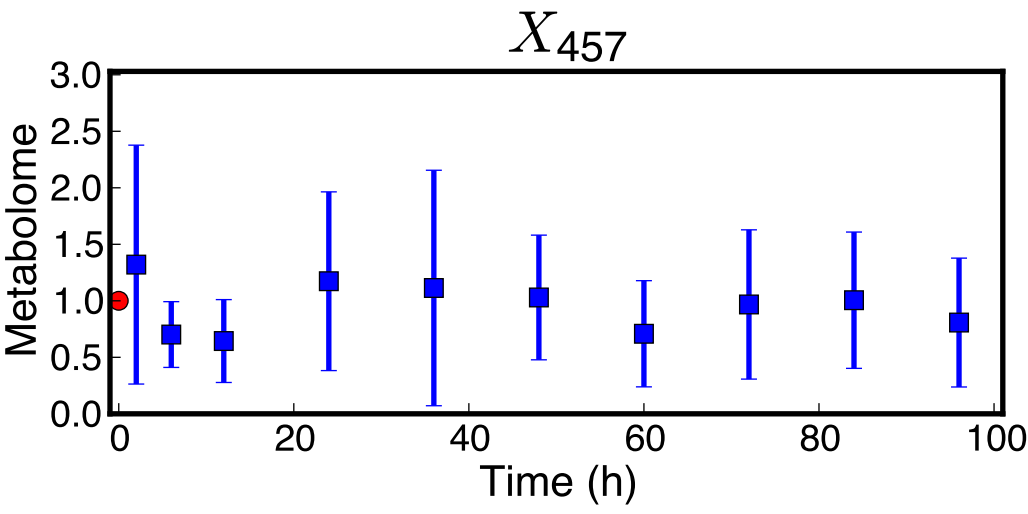
Time (h)


X_{457}
Metabolome
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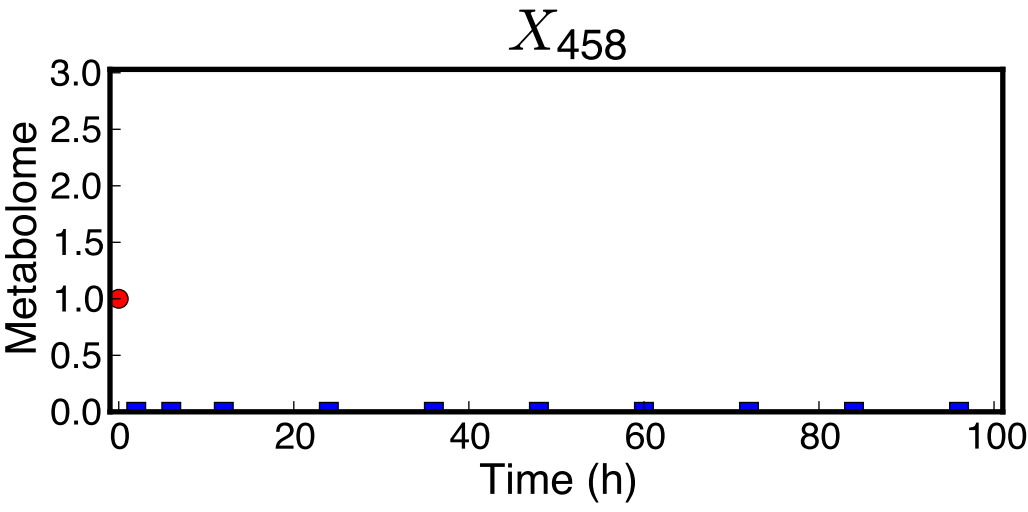
80
100
Time (h)


X_{458}
Metabolome
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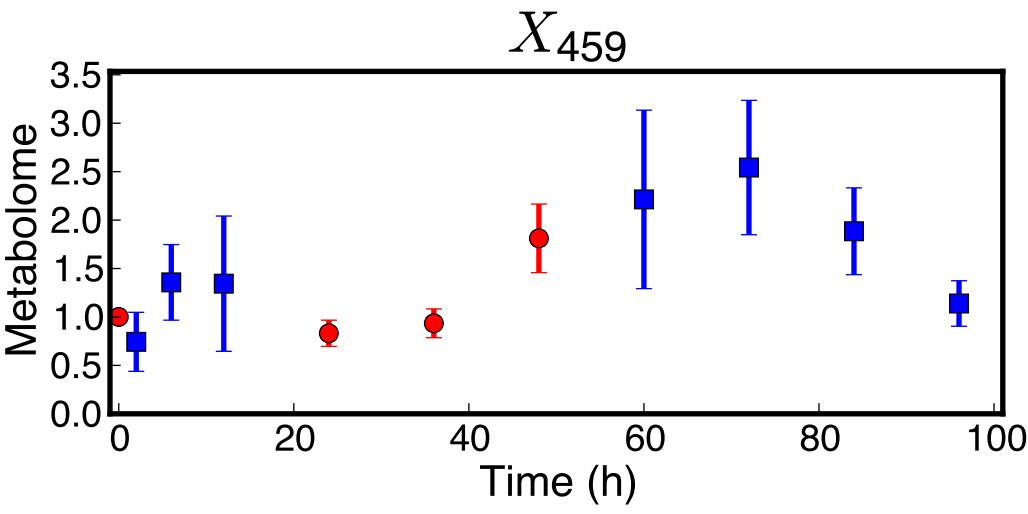
80
100
Time (h)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Metabolome
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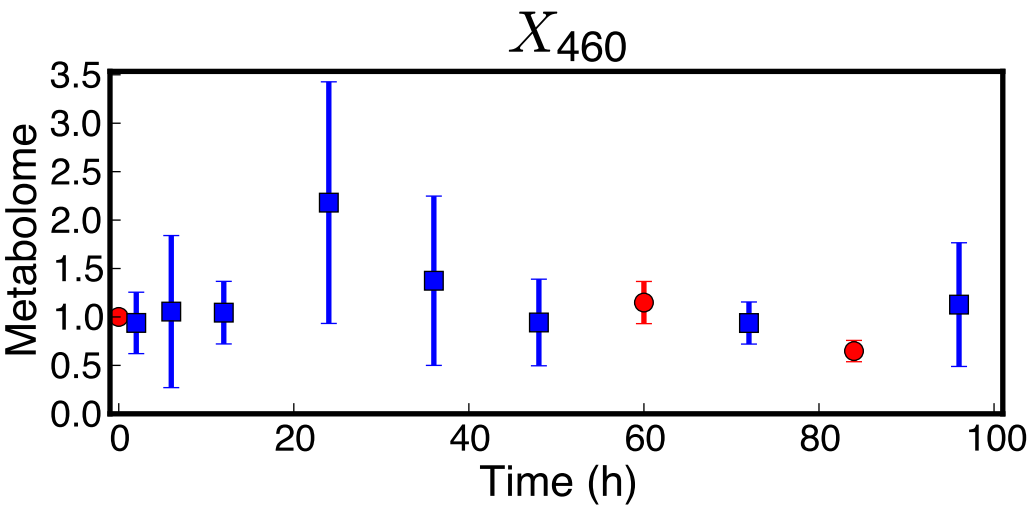
100
Time (h)


X_{460}
Metabolome
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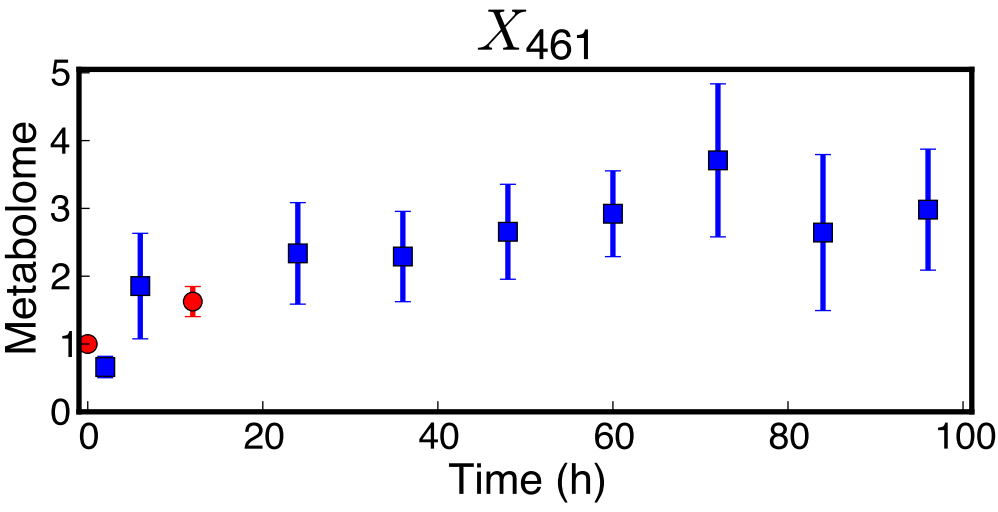
100
Time (h)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Metabolome
Time (h)
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4
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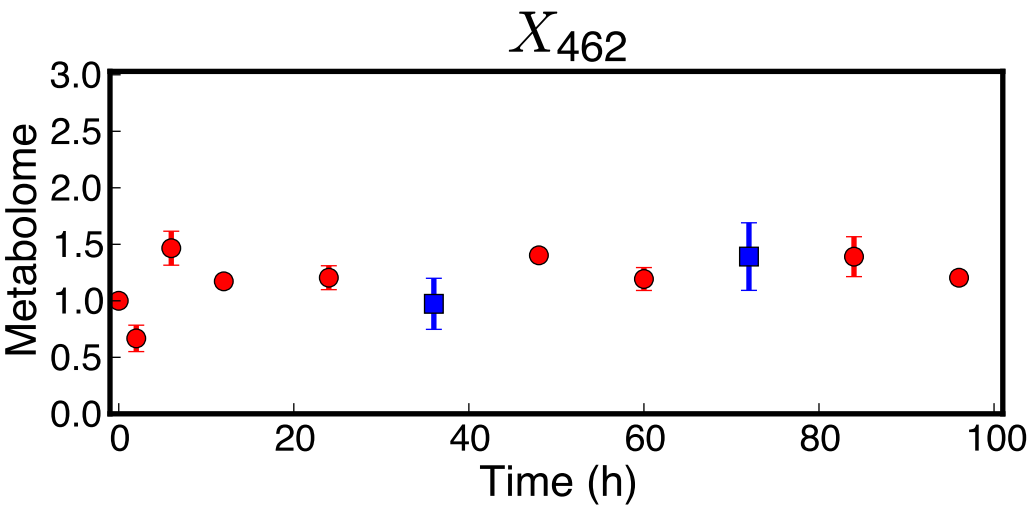
80
100


X_{462}
Metabolome
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2.0
1.5
1.0
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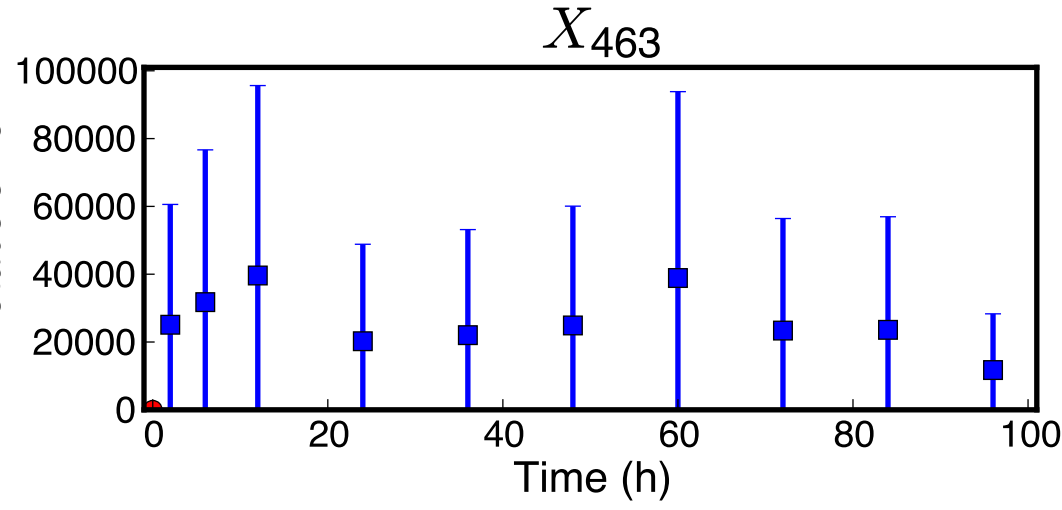
80
100
Time (h)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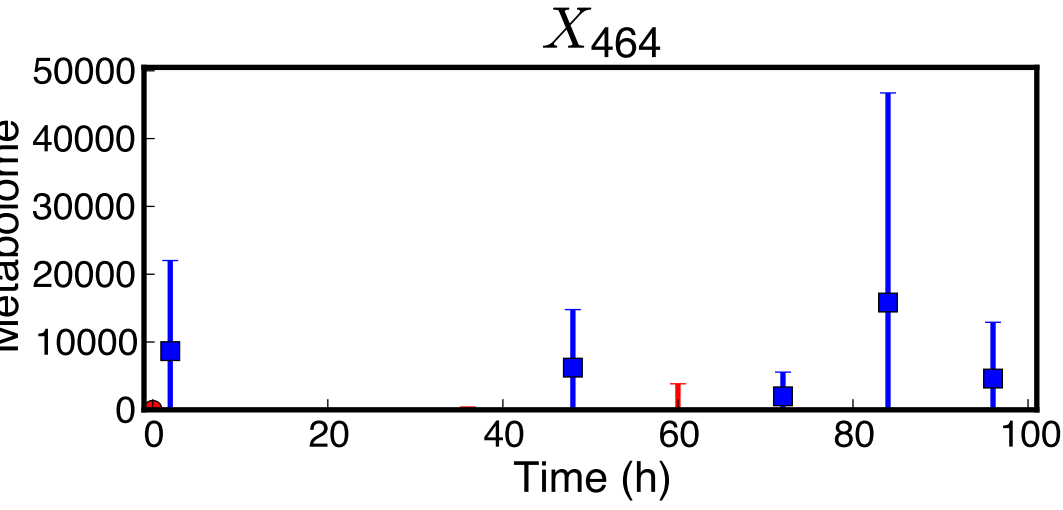
80
100
Time (h)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Metabolome
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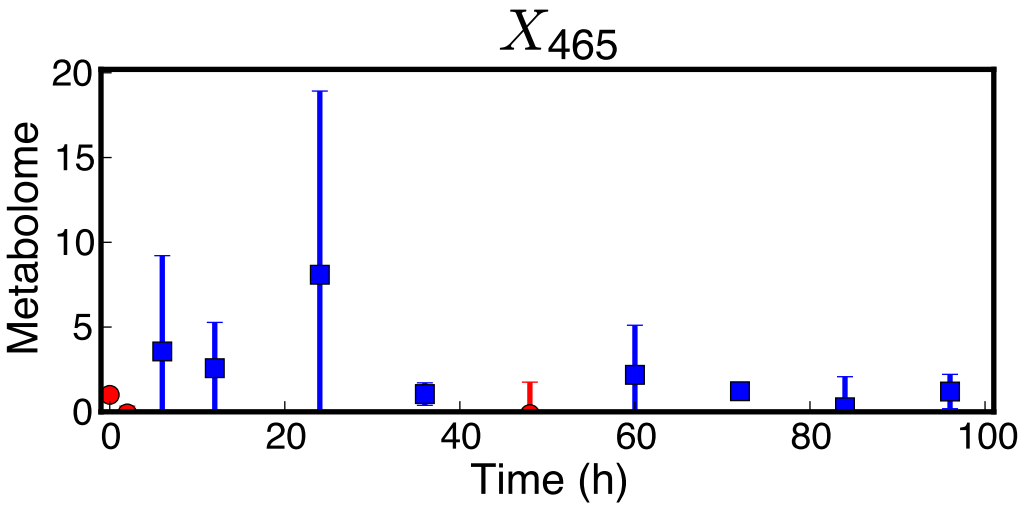
80
100
Time (h)


X_{465}
Metabolome
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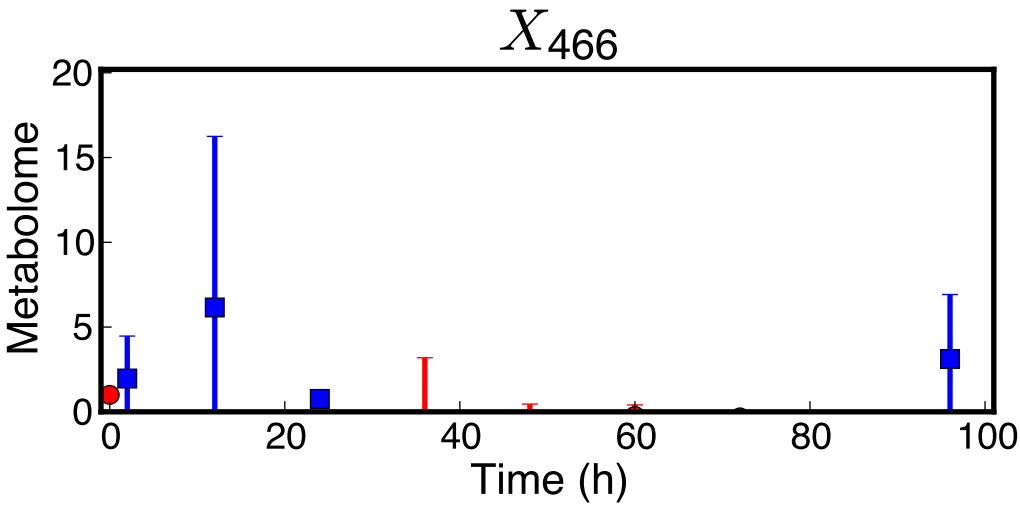
80
100
Time (h)


X_{466}
Metabolome
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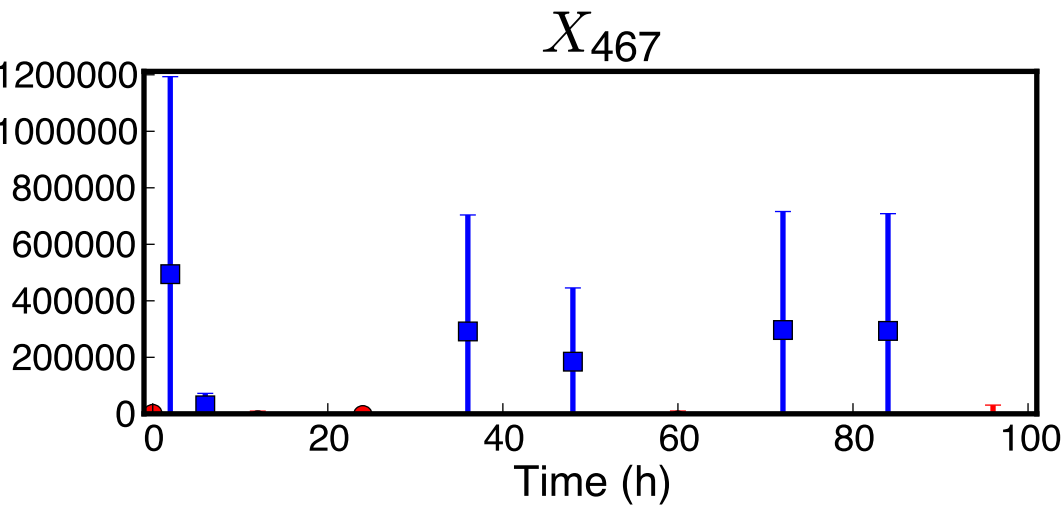
80
100
Time (h)


X_{467}
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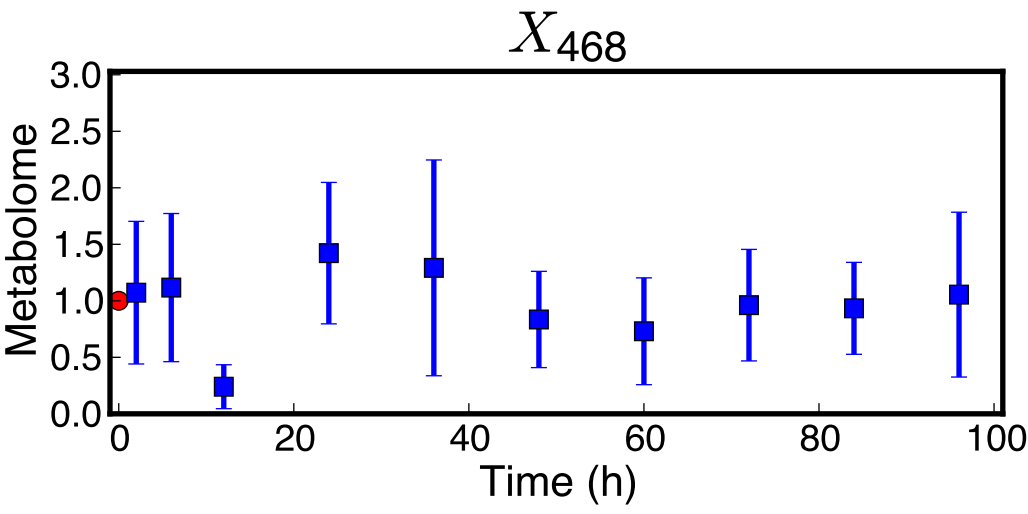
40
60
80
100
Time (h)


X_{468}
Metabolome
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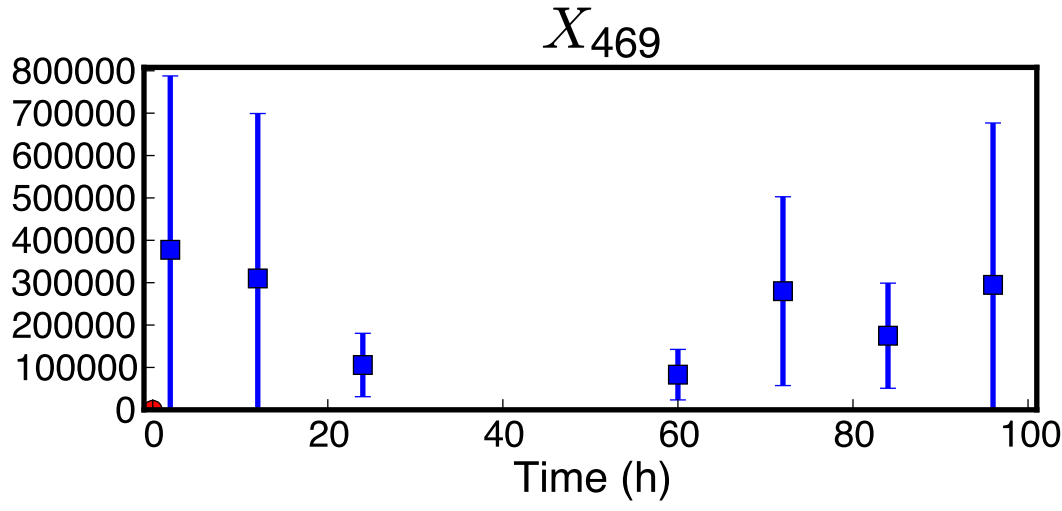
80
100
Time (h)


X_{469}
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700000
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200000
100000
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0
20
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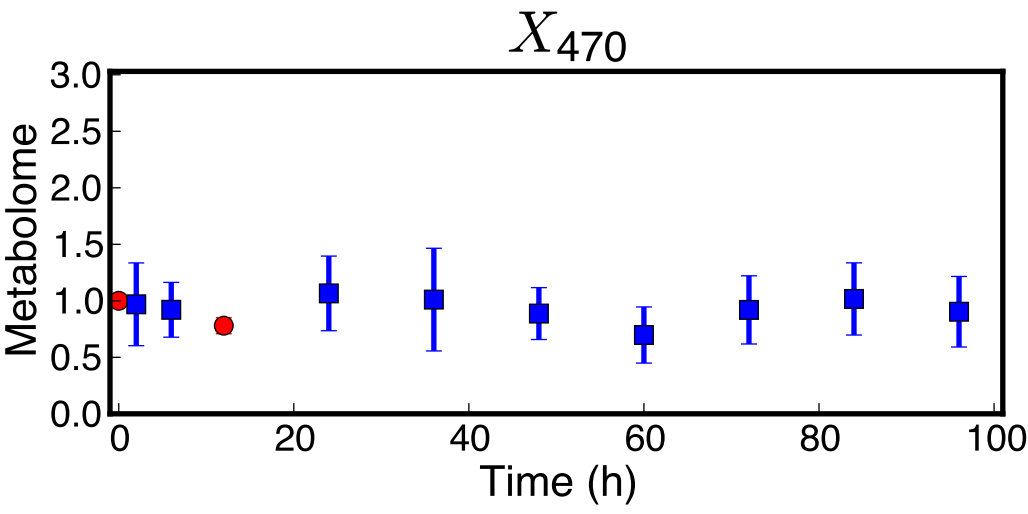
100
Time (h)


X_{470}
Metabolome
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2.0
1.5
1.0
0.5
0.0
0
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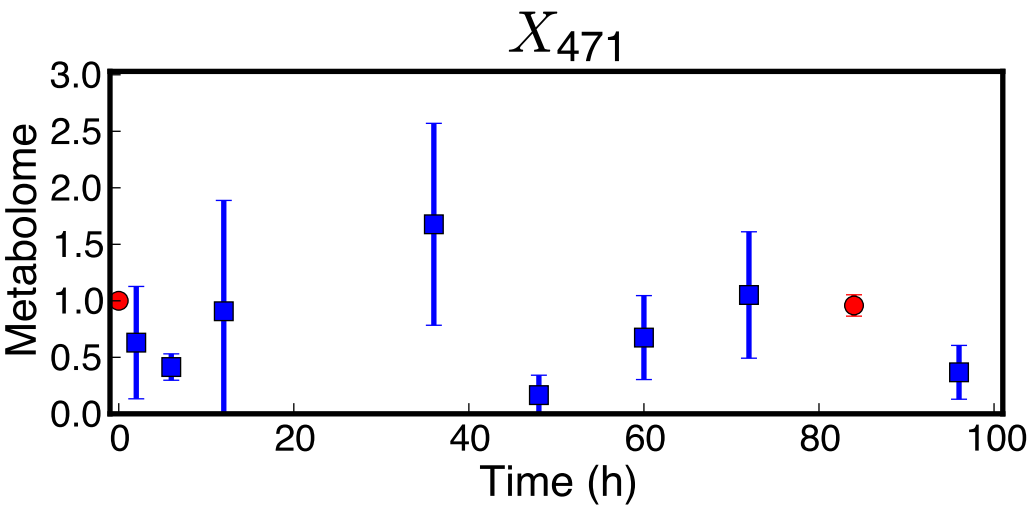
80
100
Time (h)


X_{471}
Metabolome
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2.0
1.5
1.0
0.5
0.0
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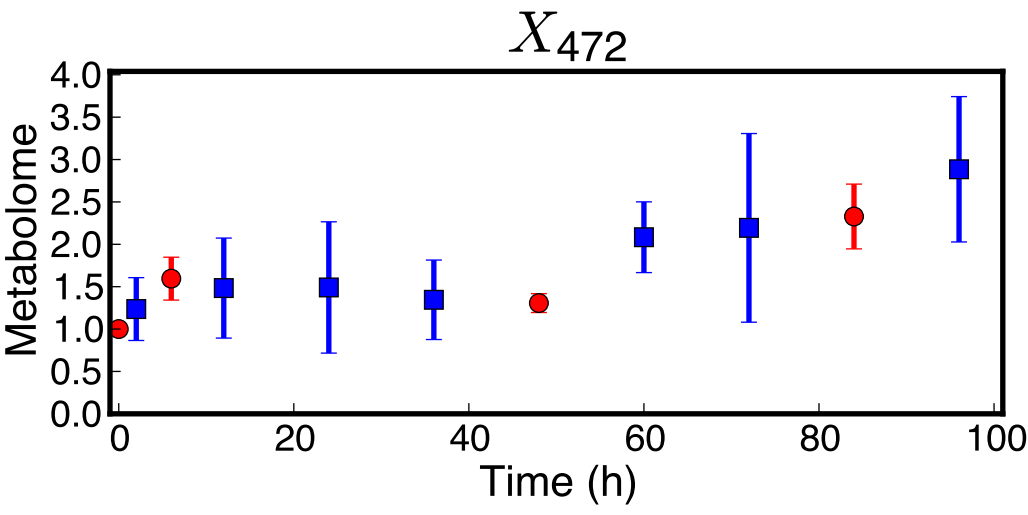
80
100
Time (h)


X_{472}
Metabolome
4.0
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2.0
1.5
1.0
0.5
0.0
0
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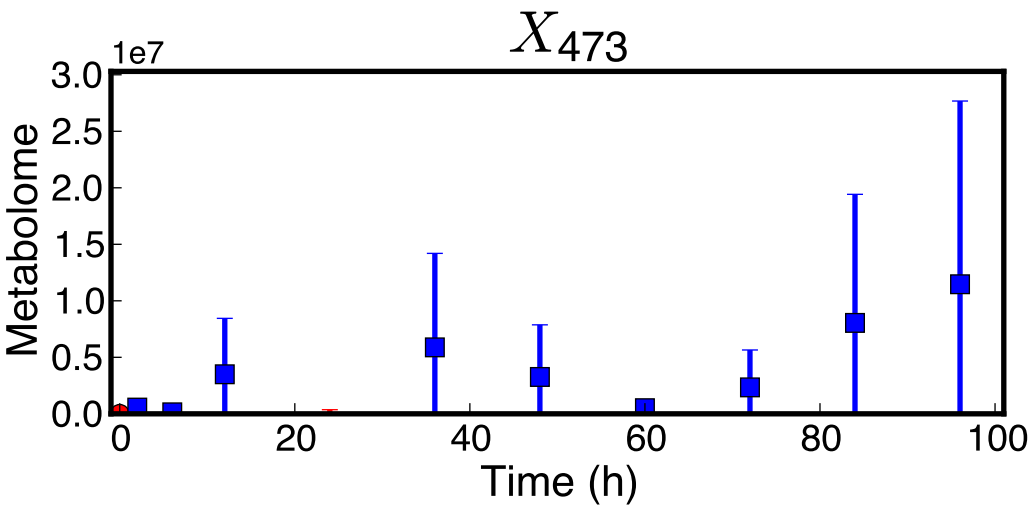
80
100
Time (h)


X_{473}
1e7
3.0
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2.0
1.5
1.0
0.5
0.0
Metabolome
0
20
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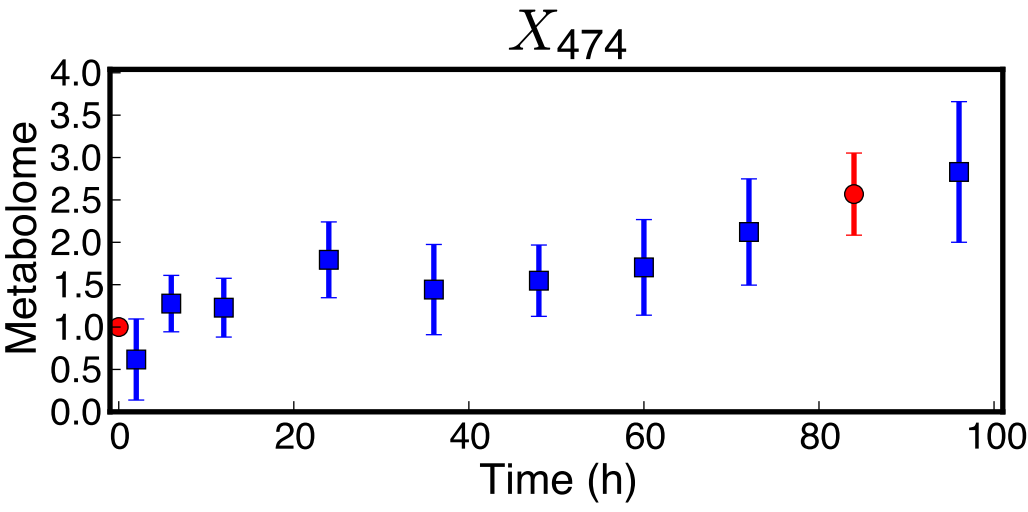
80
100
Time (h)


X_{474}
Metabolome
4.0
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2.0
1.5
1.0
0.5
0.0
0
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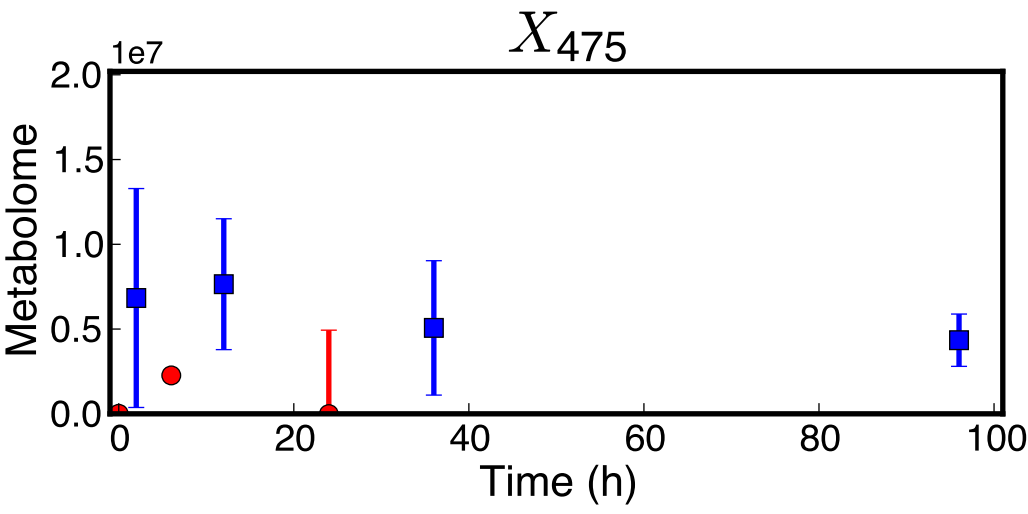
60
80
100
Time (h)


X_{475}
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1.5
1.0
0.5
0.0
Metabolome
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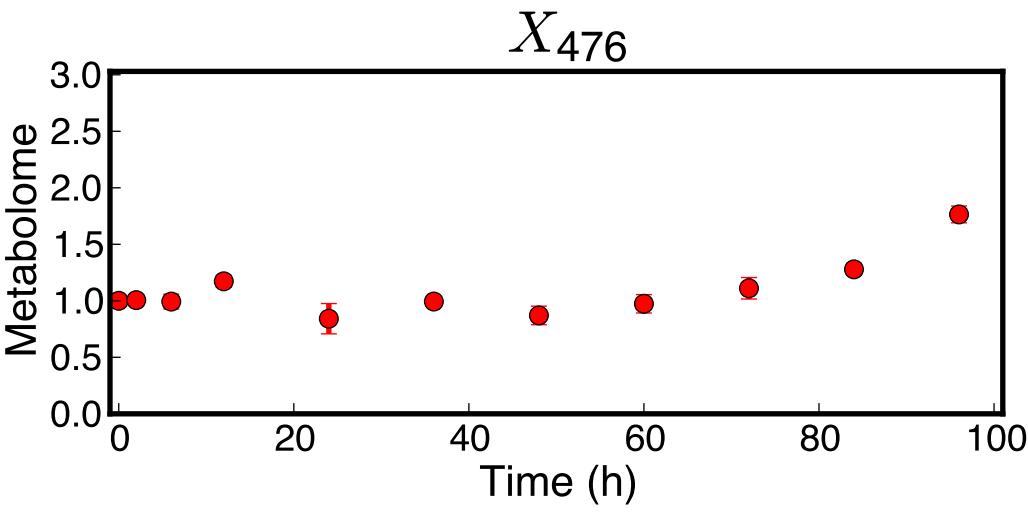
60
80
100
Time (h)


X_{476}
Metabolome
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2.0
1.5
1.0
0.5
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0
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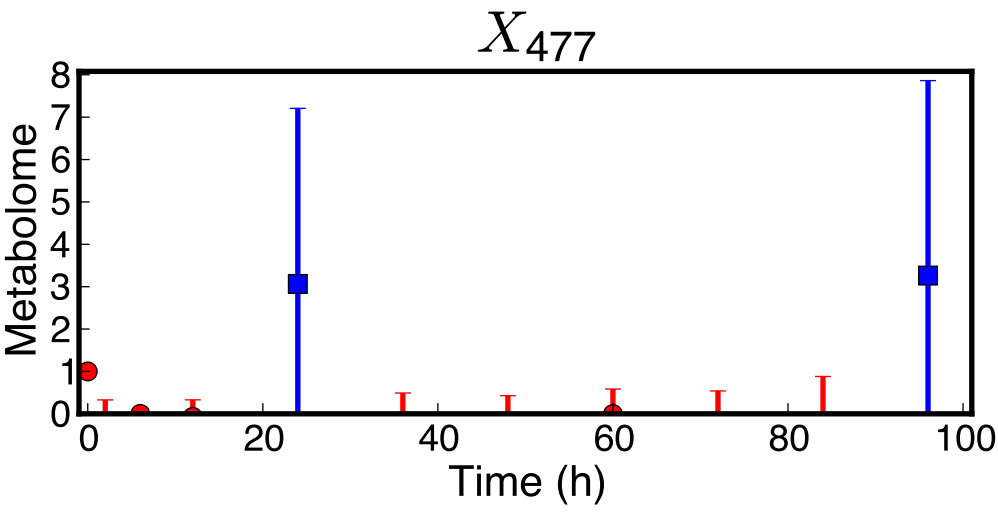
80
100
Time (h)


X_{477}
Metabolome
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6
7
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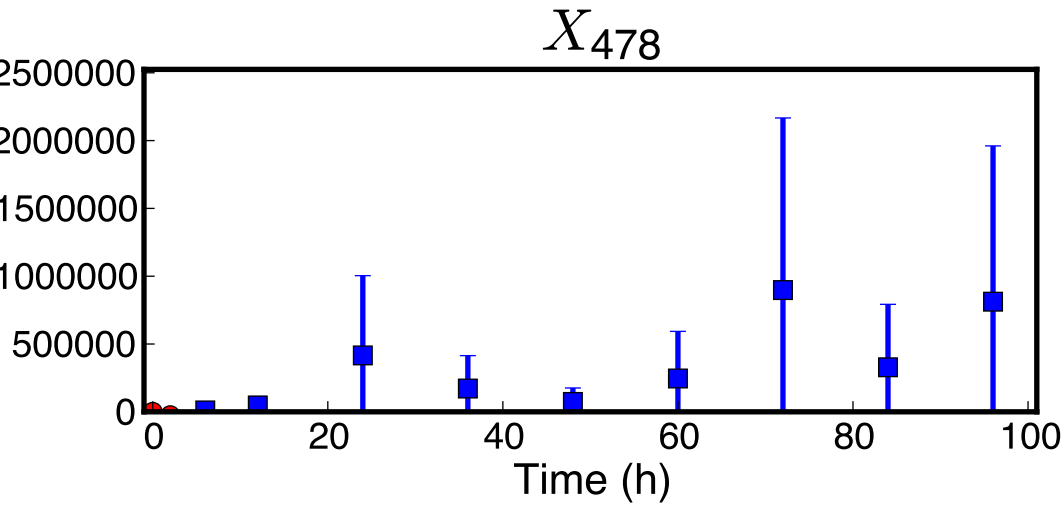
60
80
100
Time (h)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500000
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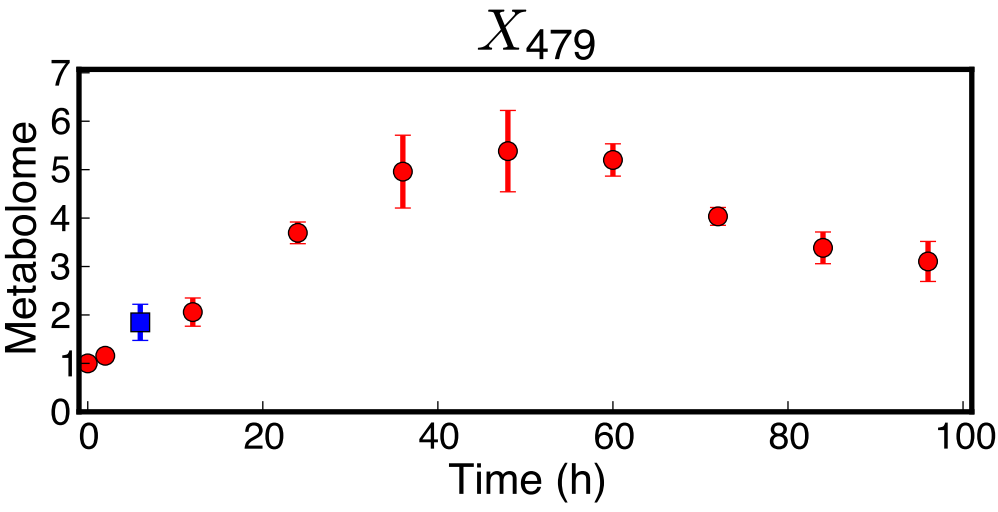
60
80
100
Time (h)


X_{479}
Metabolome
Time (h)
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6
7
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80
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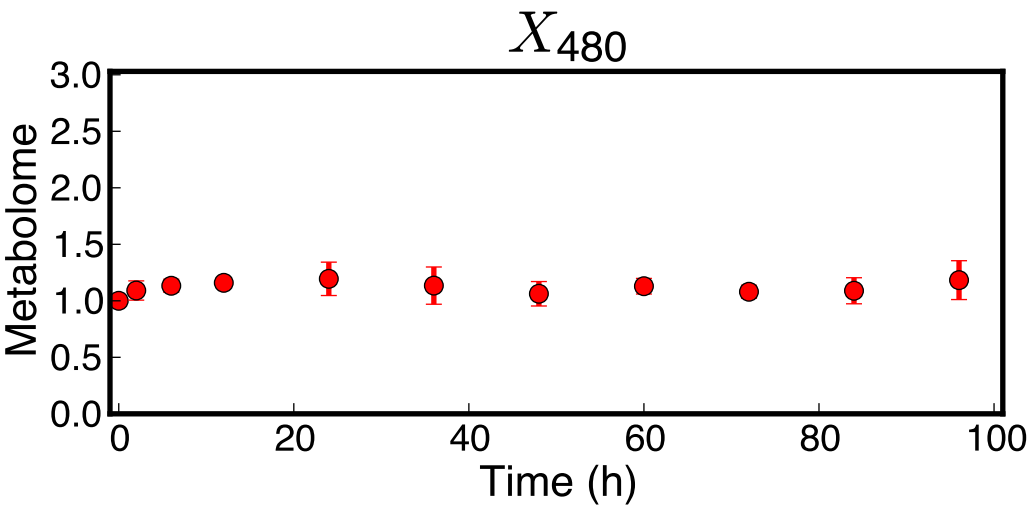
X_{480}
Metabolome
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2.0
1.5
1.0
0.5
0.0
0
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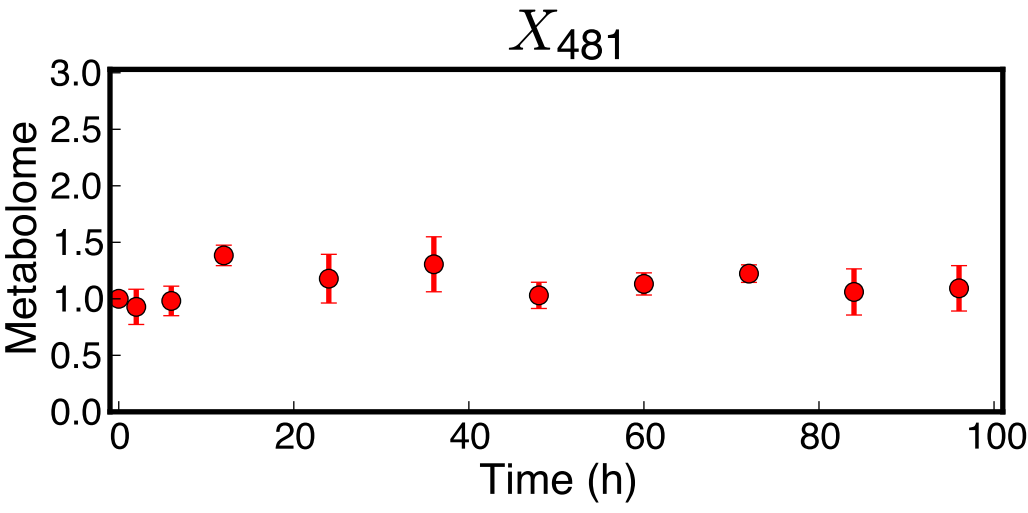
40
60
80
100
Time (h)


X_{481}
Metabolome
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1.0
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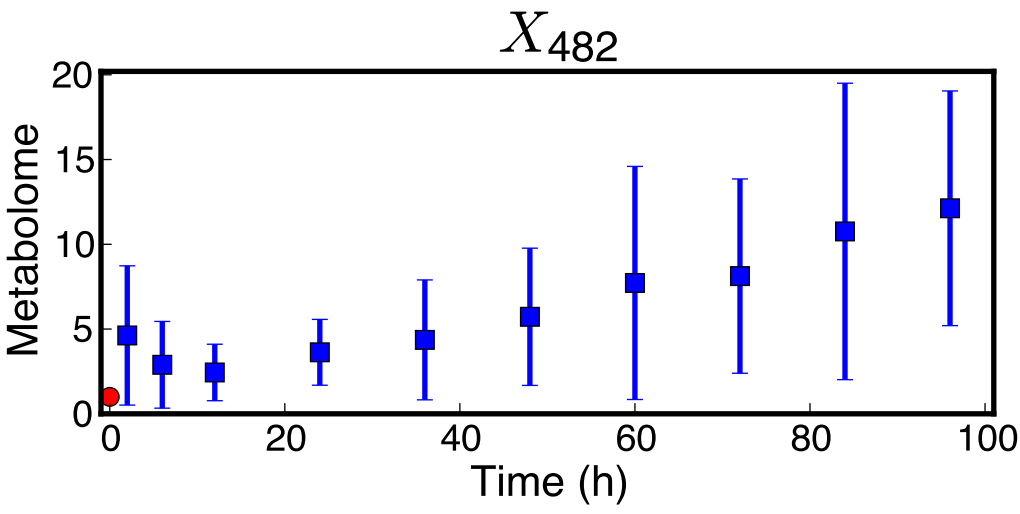
80
100
Time (h)


X_{482}
Metabolome
Time (h)
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0
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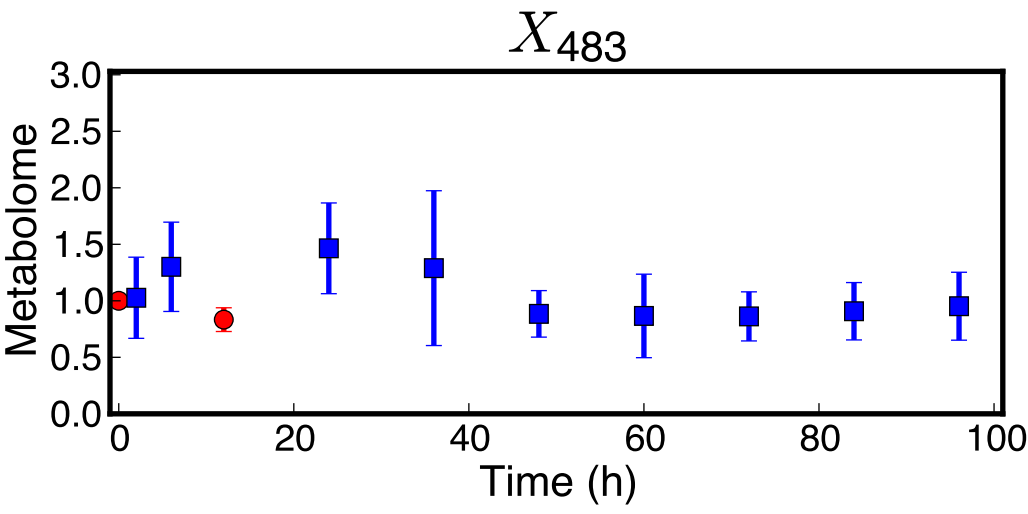
40
60
80
100


X_{483}
Metabolome
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1.0
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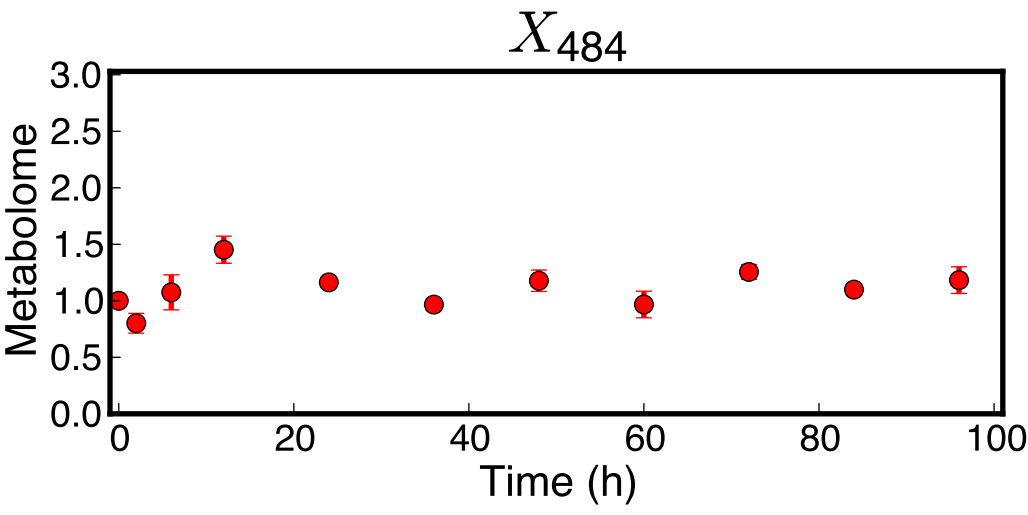
80
100
Time (h)


X_{484}
Metabolome
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2.0
1.5
1.0
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0.0
0
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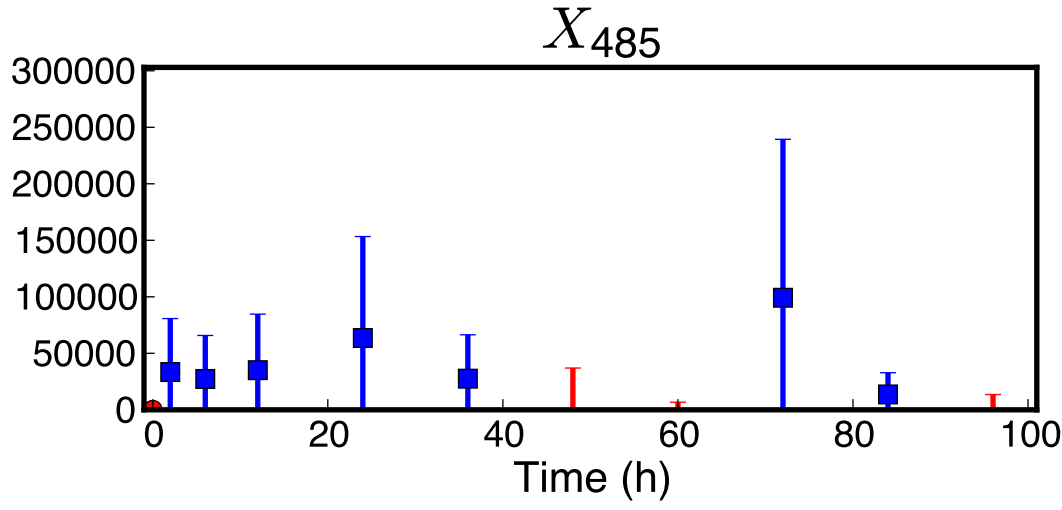
80
100
Time (h)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150000
100000
50000
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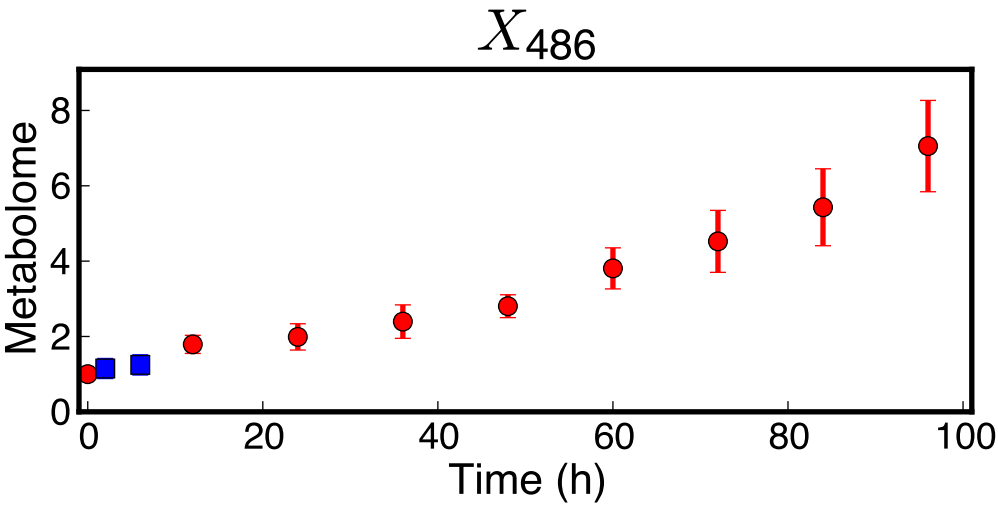
Time (h)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Metabolome
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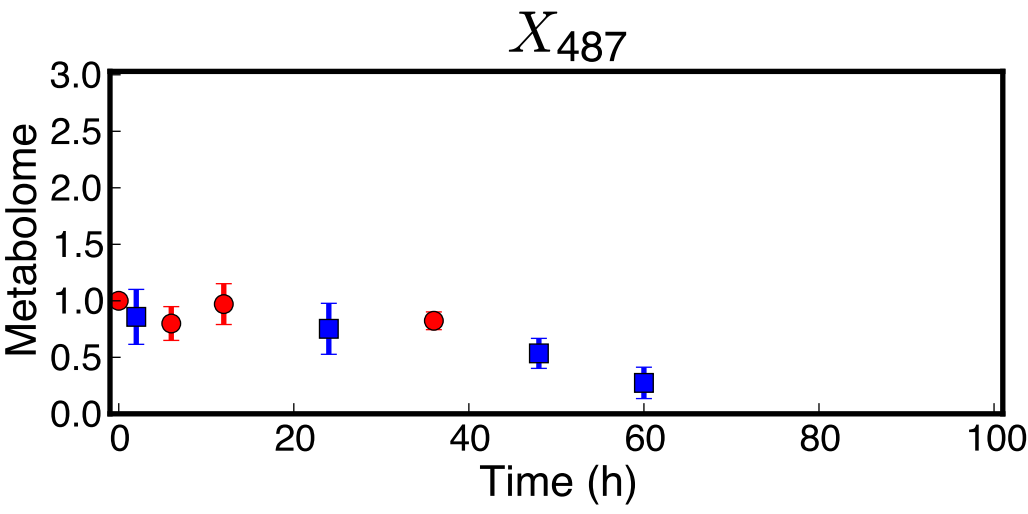
Time (h)


X_{487}
Metabolome
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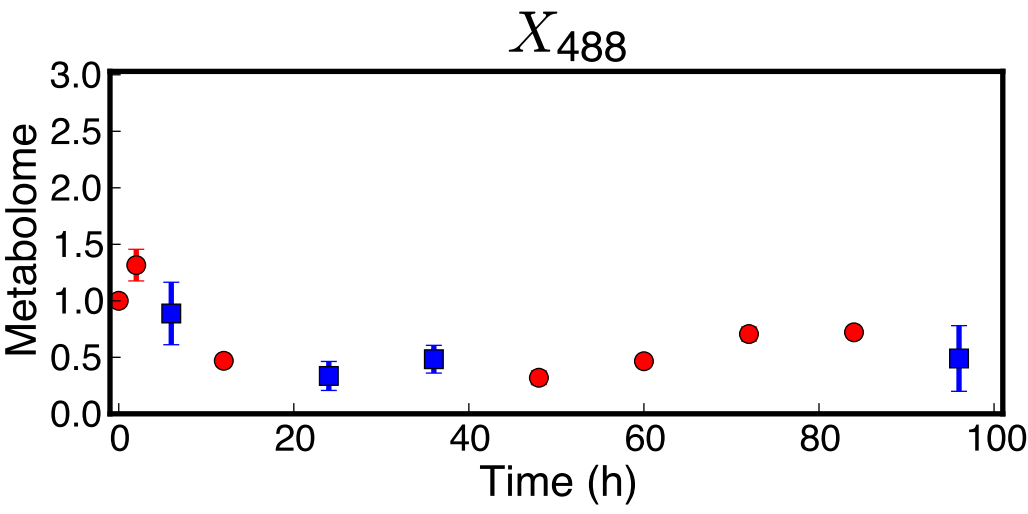
100
Time (h)


X_{488}
Metabolome
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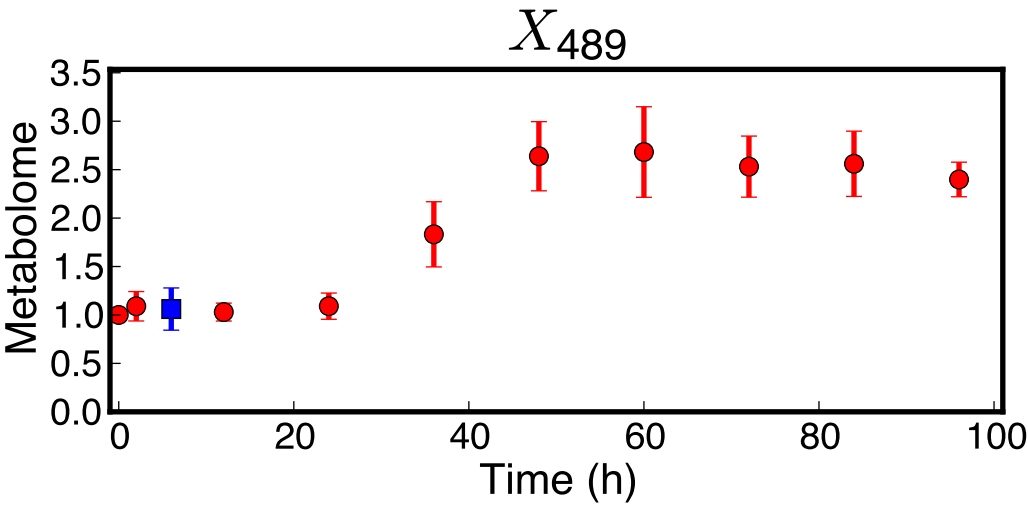
100
Time (h)


X_{489}
Metabolome
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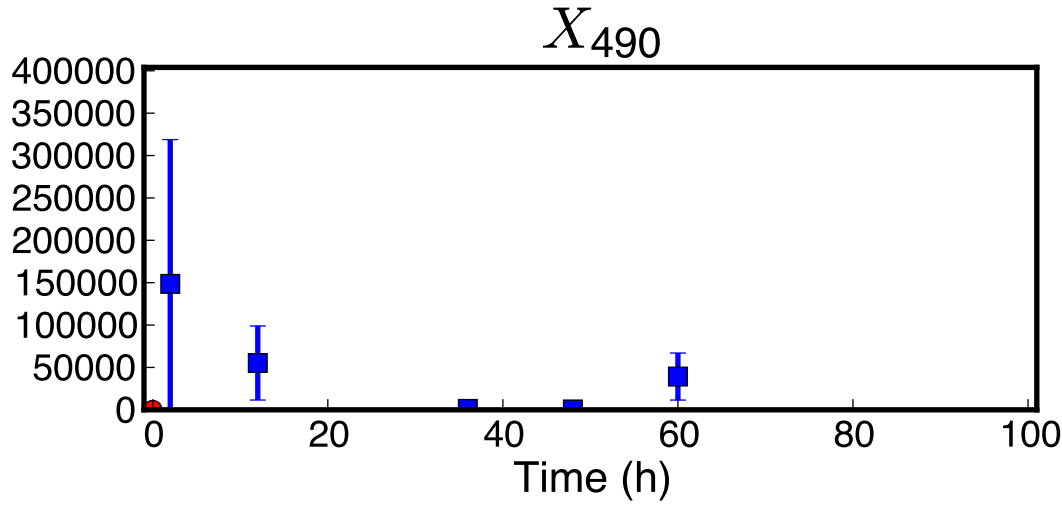
100
Time (h)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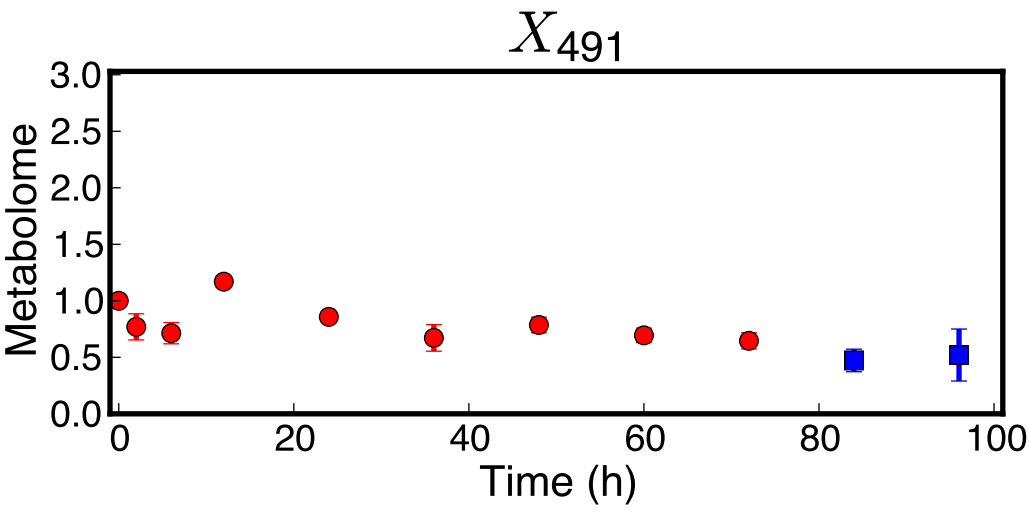
Time (h)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Metabolome
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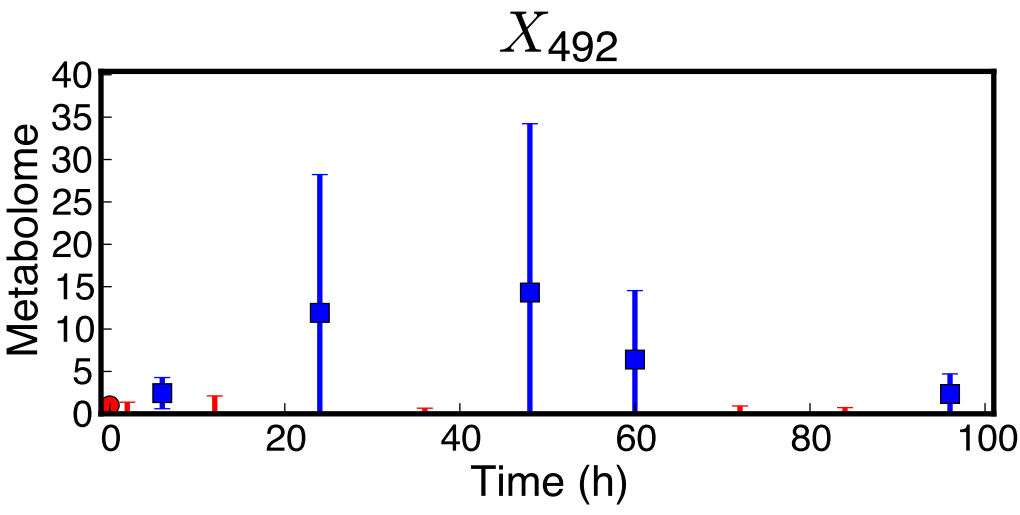
Time (h)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Metabolome
Time (h)
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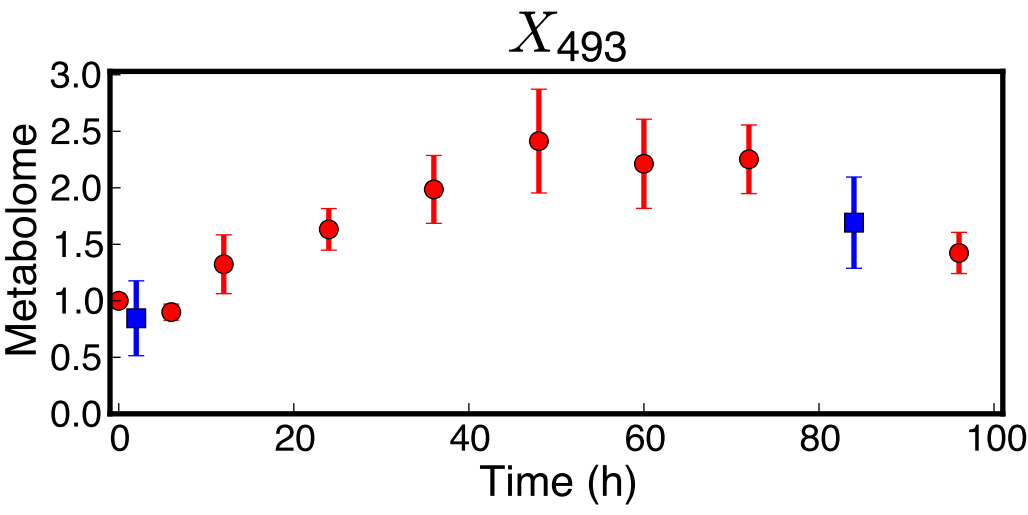
X_{493}
Metabolome
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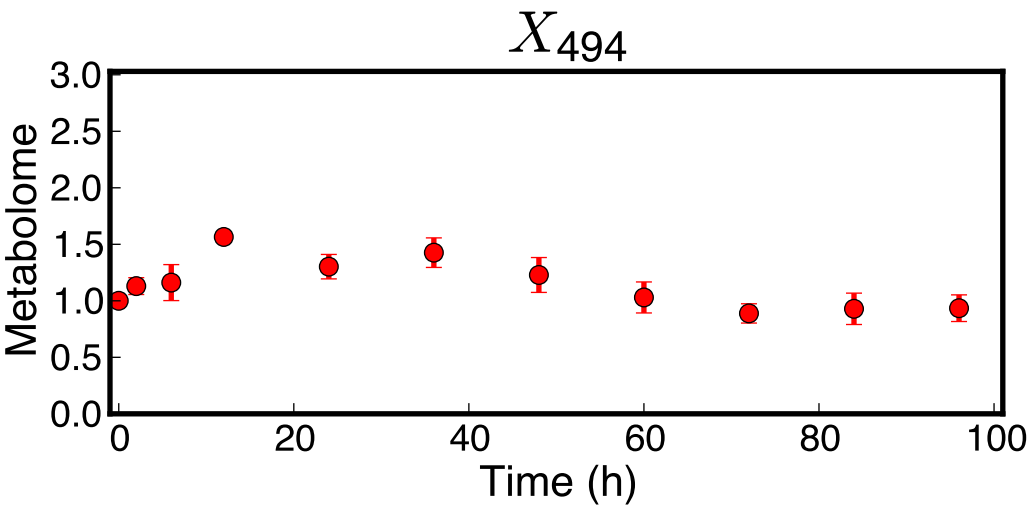
Time (h)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Metabolome
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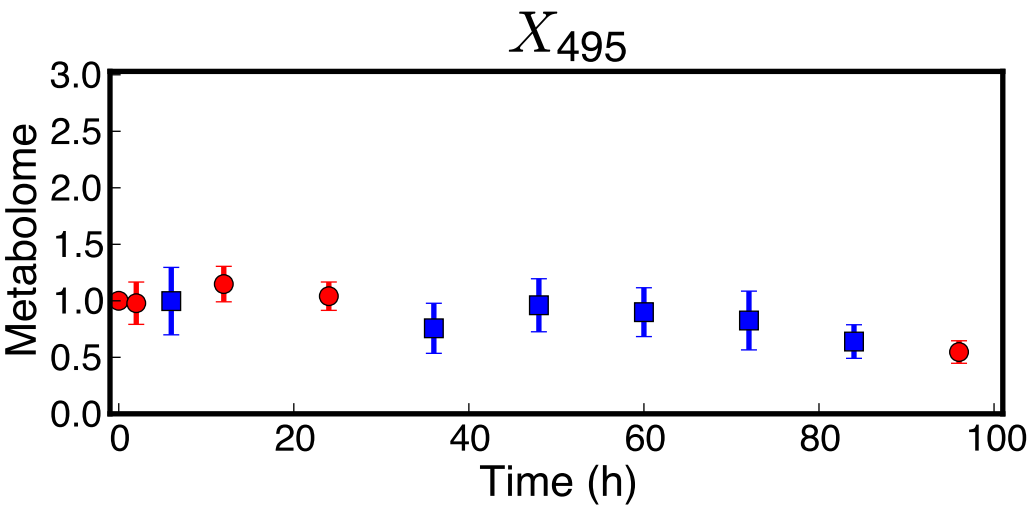
Time (h)


X_{495}
Metabolome
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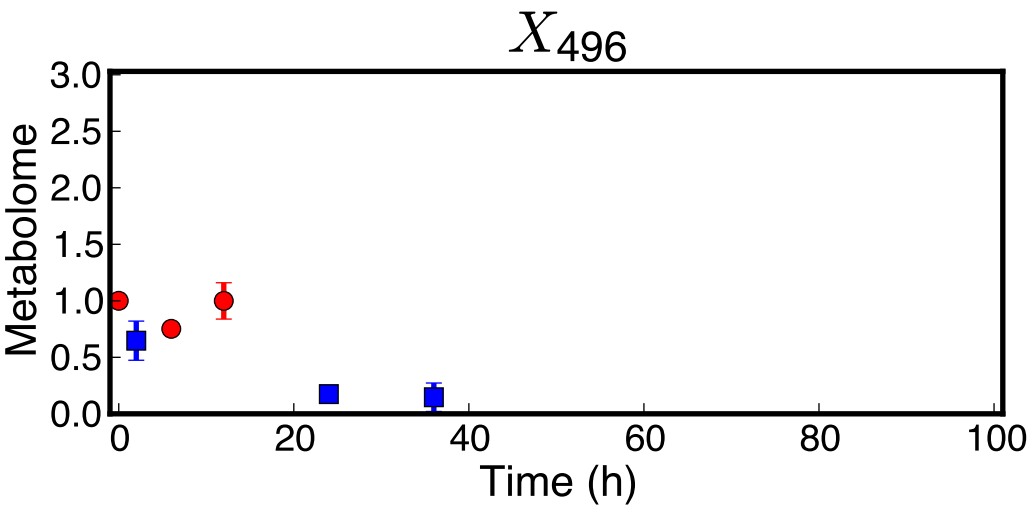
Time (h)


X_{496}
Metabolome
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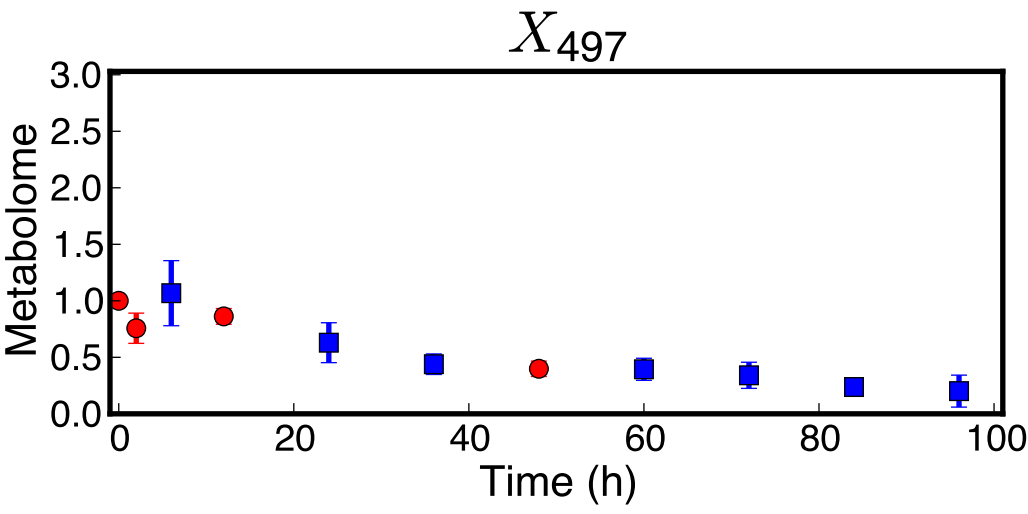
100
Time (h)


X_{497}
Metabolome
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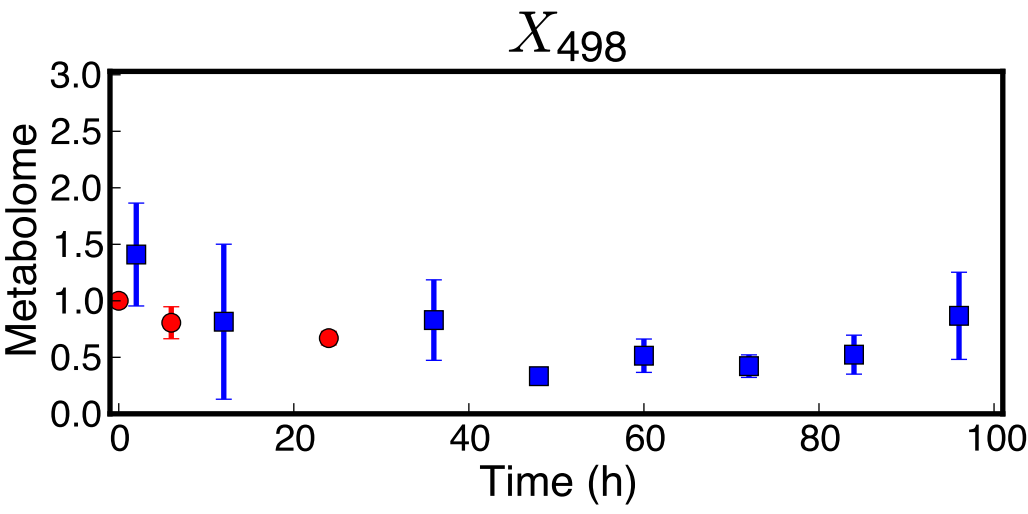
80
100
Time (h)


X_{498}
Metabolome
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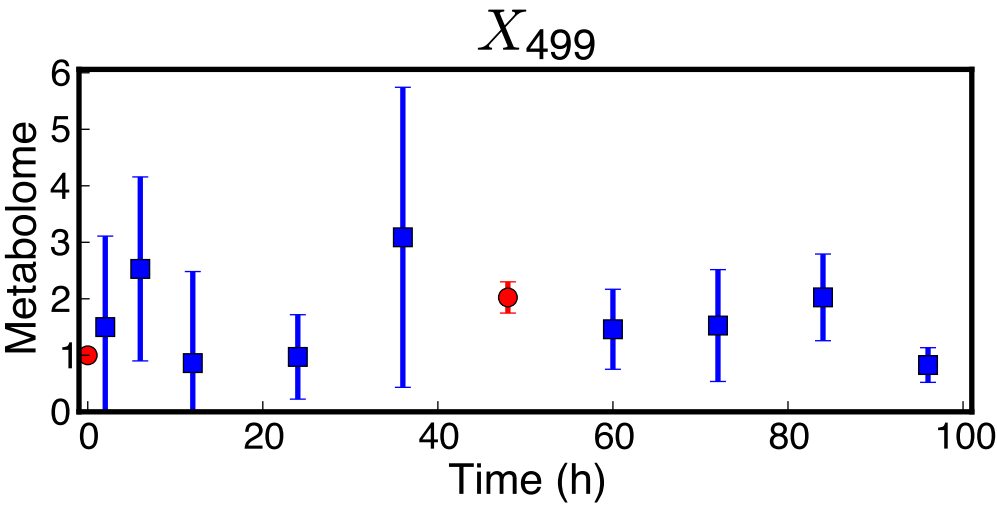
80
100
Time (h)


X_{499}
Metabolome
Time (h)
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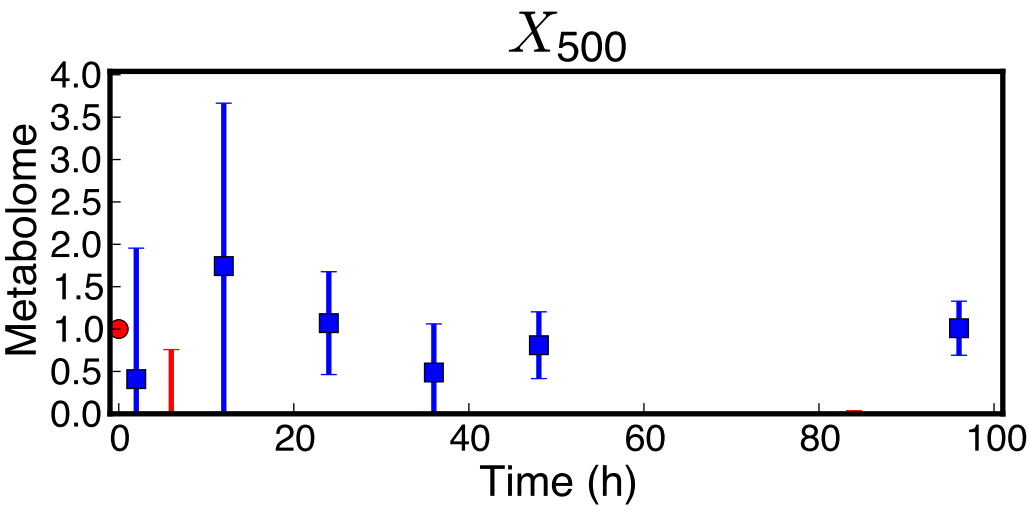
80
100


X_{500}
Metabolome
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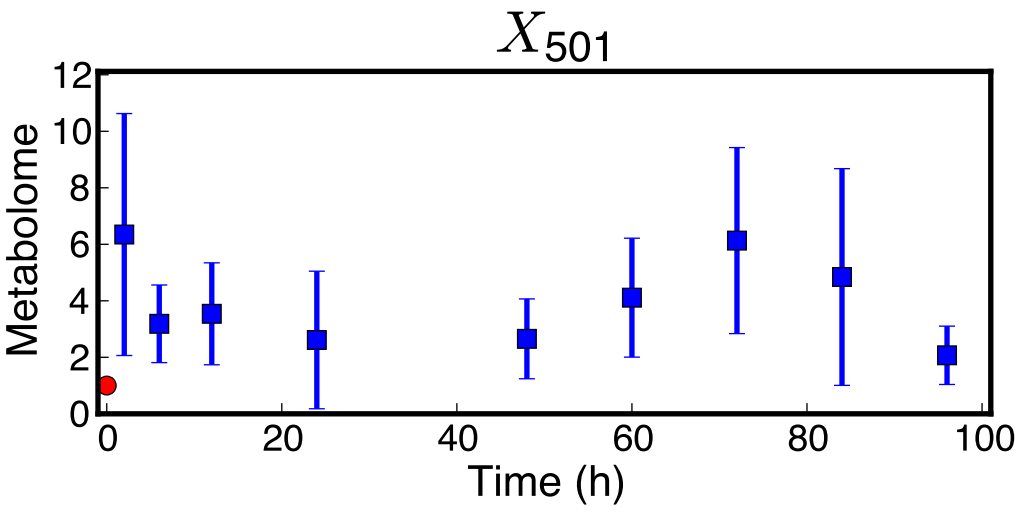
80
100
Time (h)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Metabolome
Time (h)
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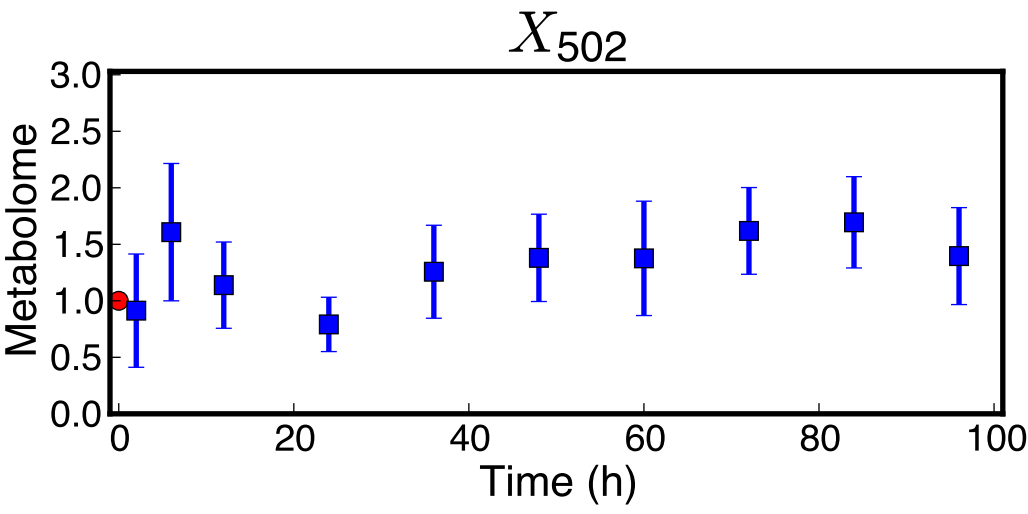
X_{502}
Metabolome
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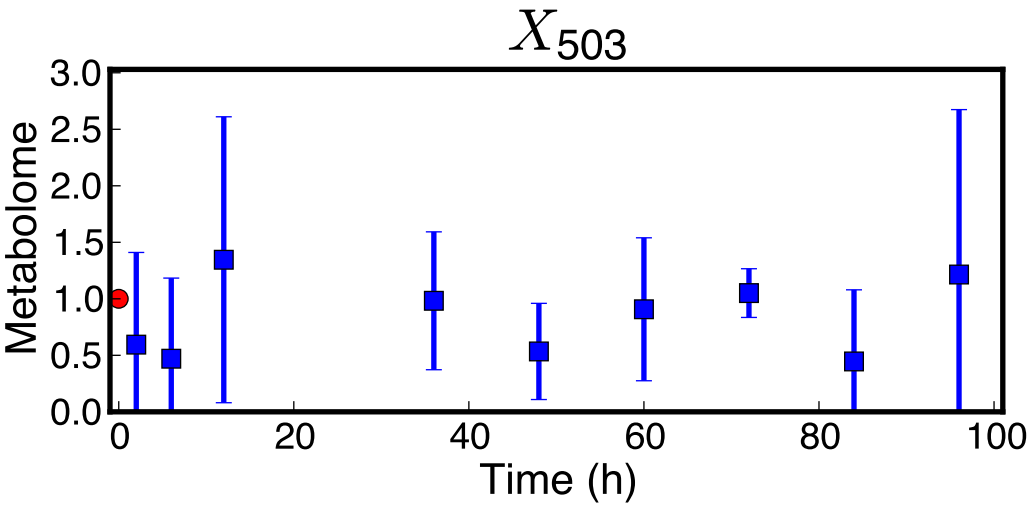
100
Time (h)


X_{503}
Metabolome
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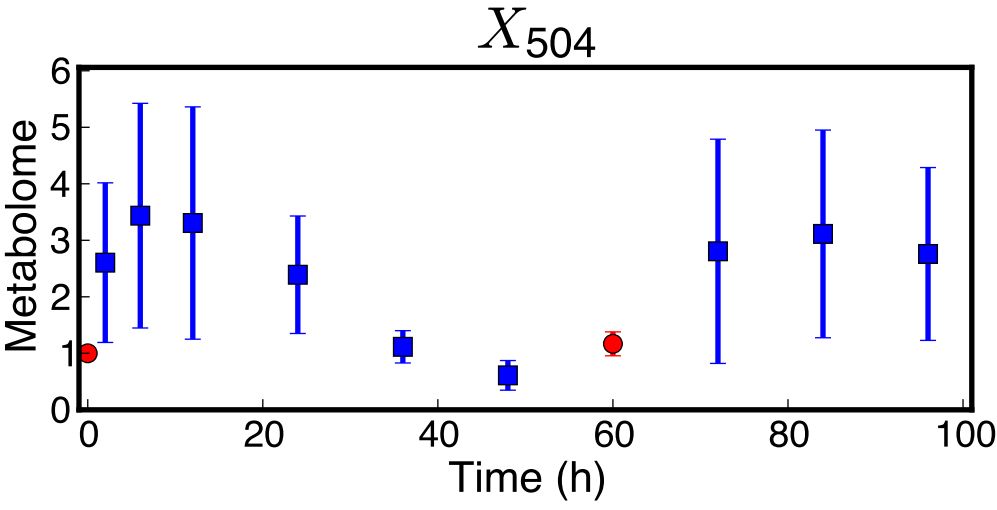
100
Time (h)


X_{504}
Metabolome
Time (h)
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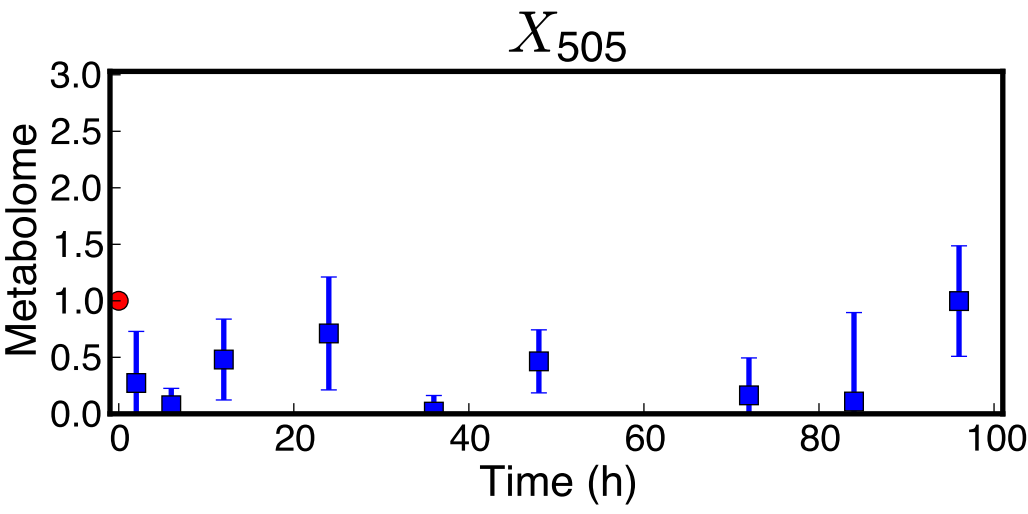
80
100


X_{505}
Metabolome
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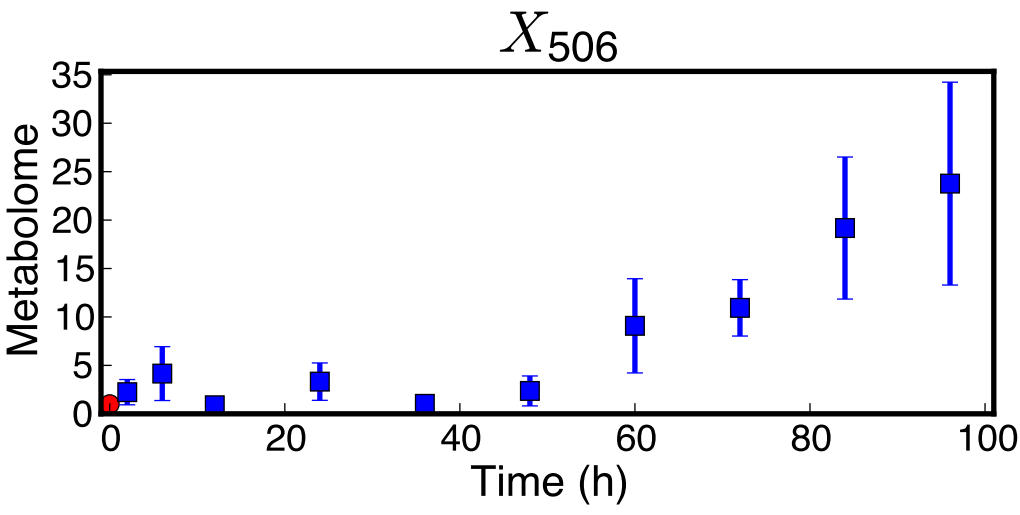
100
Time (h)


X_{506}
Metabolome
Time (h)
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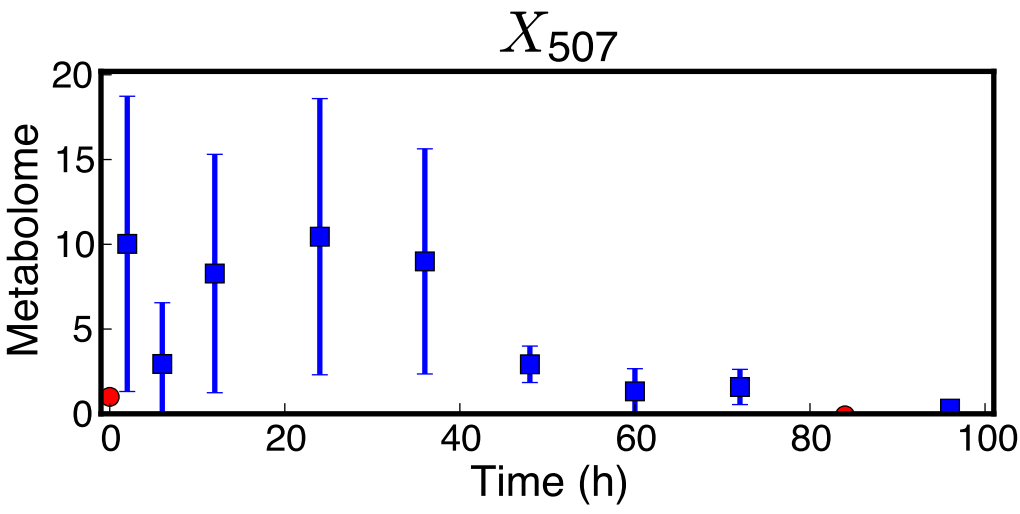
100


X_{507}
Metabolome
Time (h)
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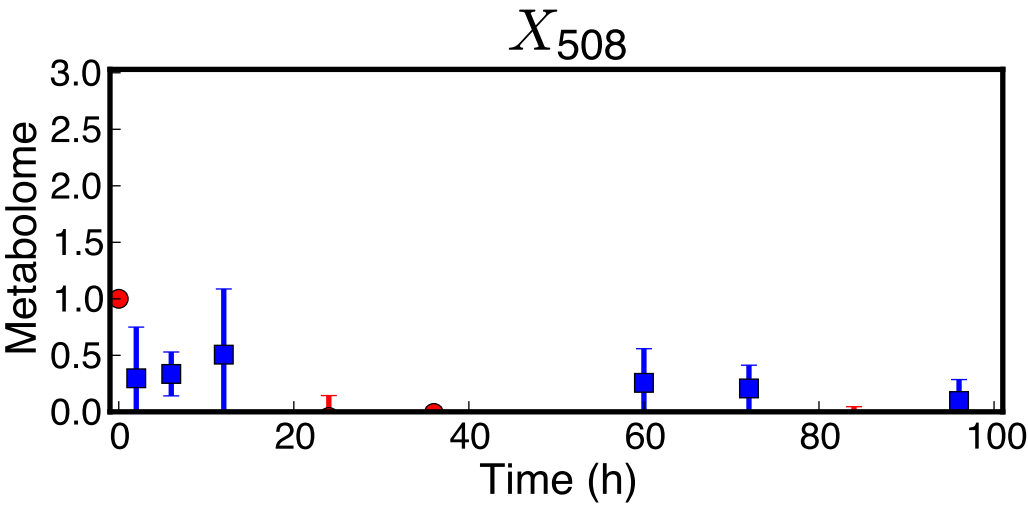
X_{508}
Metabolome
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1.0
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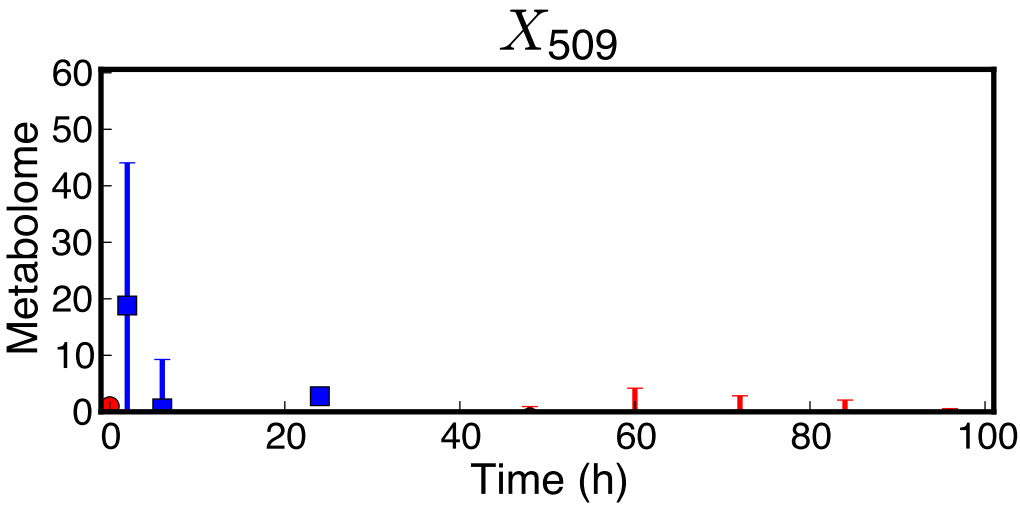
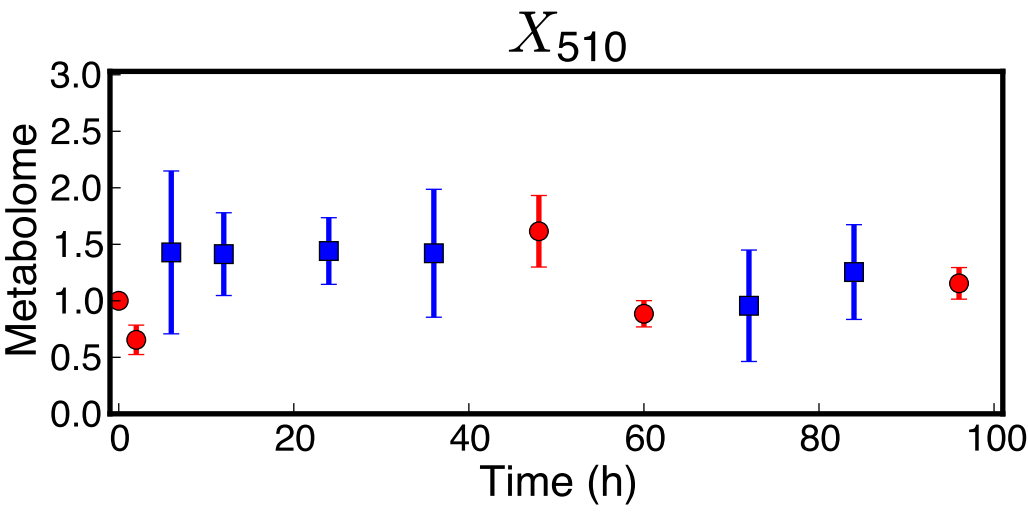
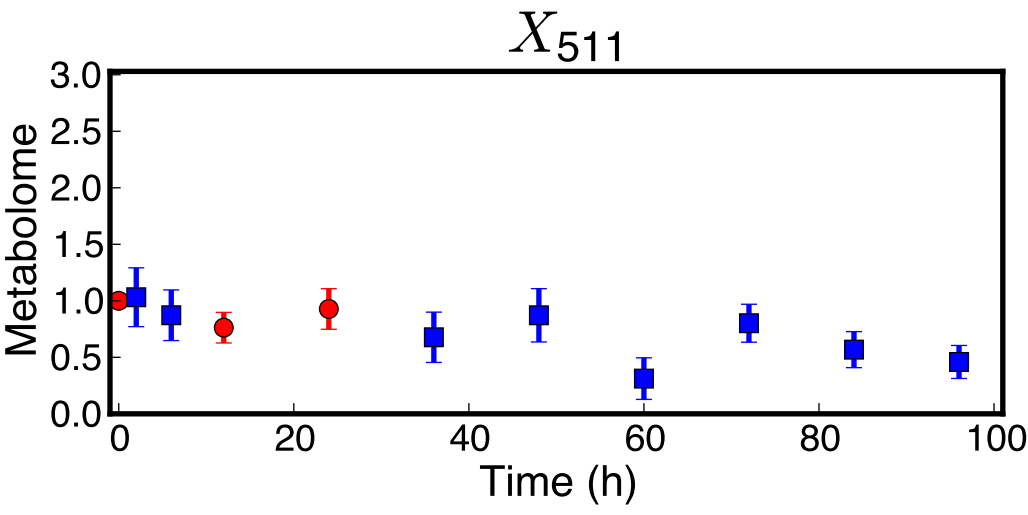
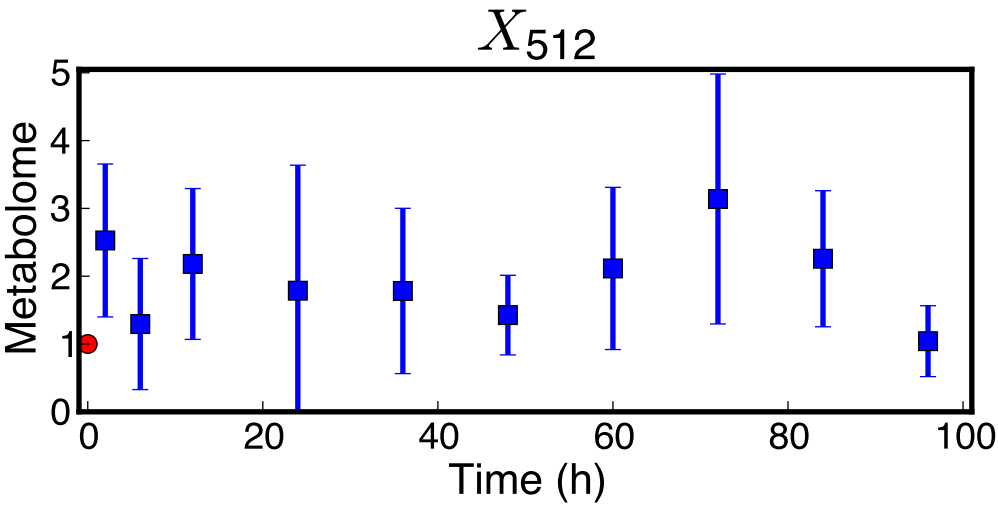
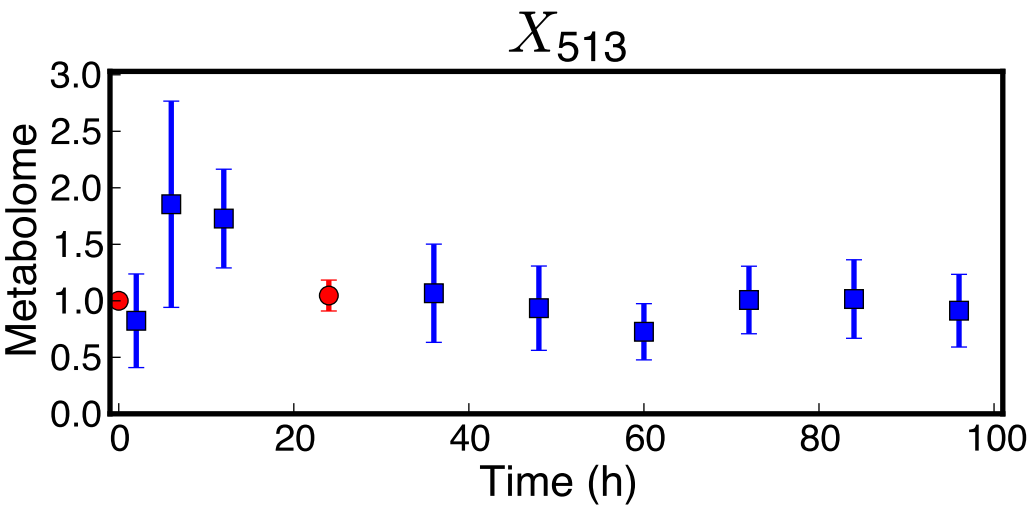
0.0
0
20
40
60
80
100
Time (h)

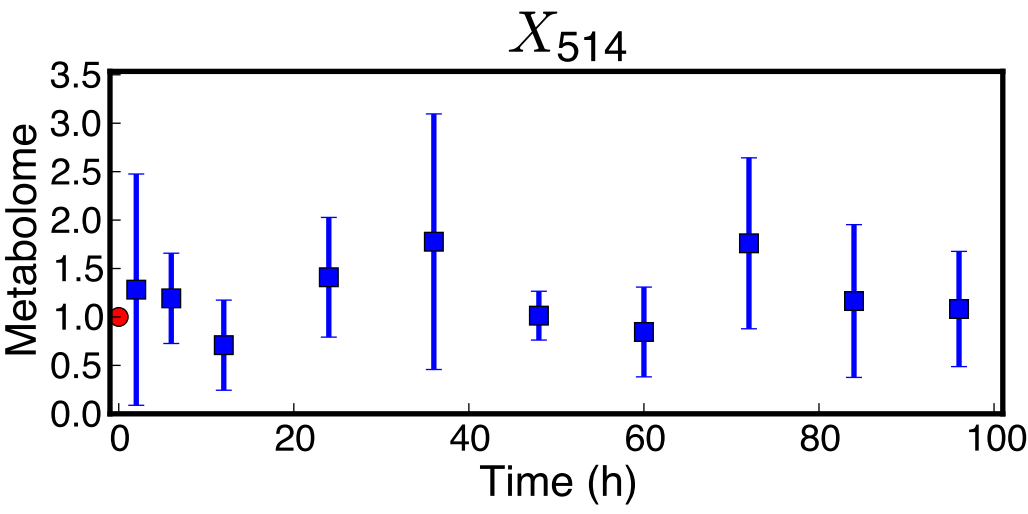

X_{509}
Metabolome
60
50
40
30
20
10
0
0
20
40
60
80
100
Time (h)

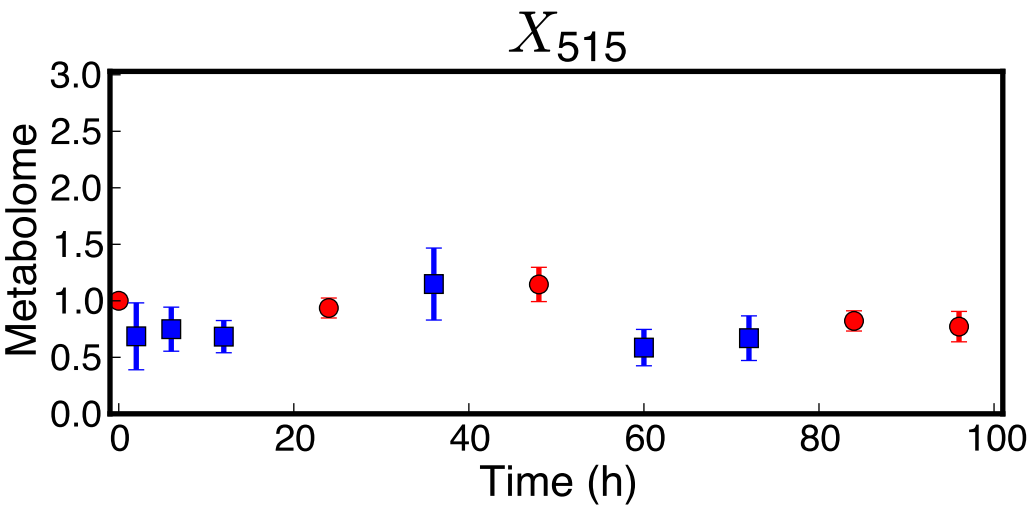

X_{510}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

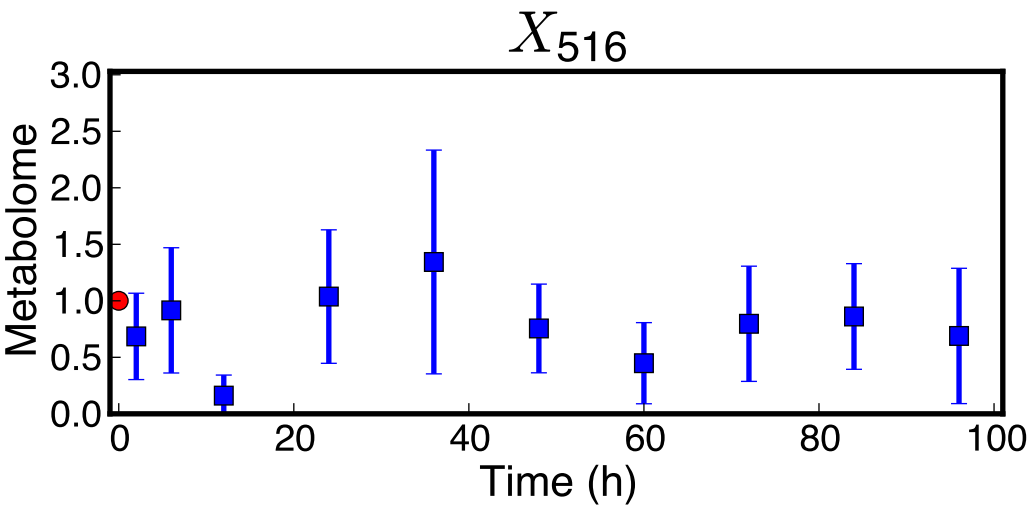

X_{511}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

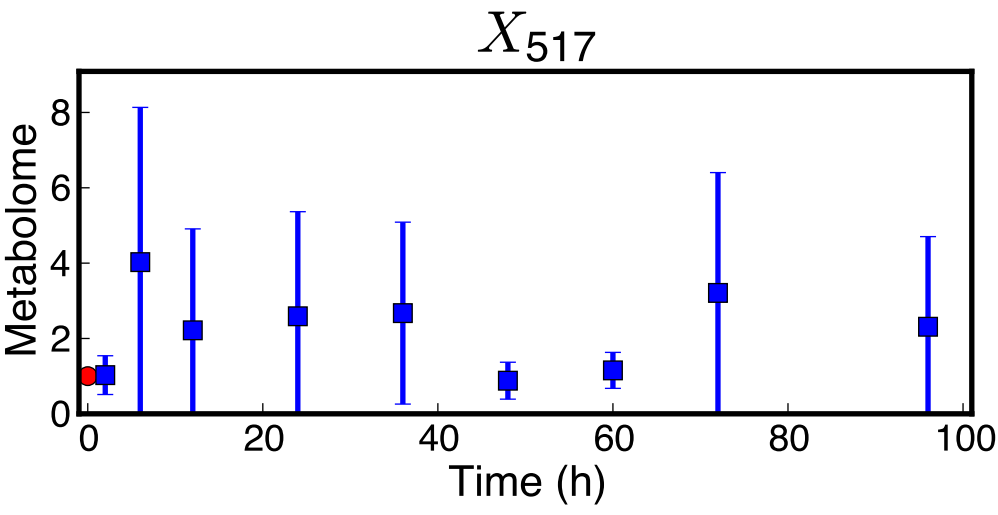

X_{512}
Metabolome
Time (h)
0
1
2
3
4
5
0
20
40
60
80
100

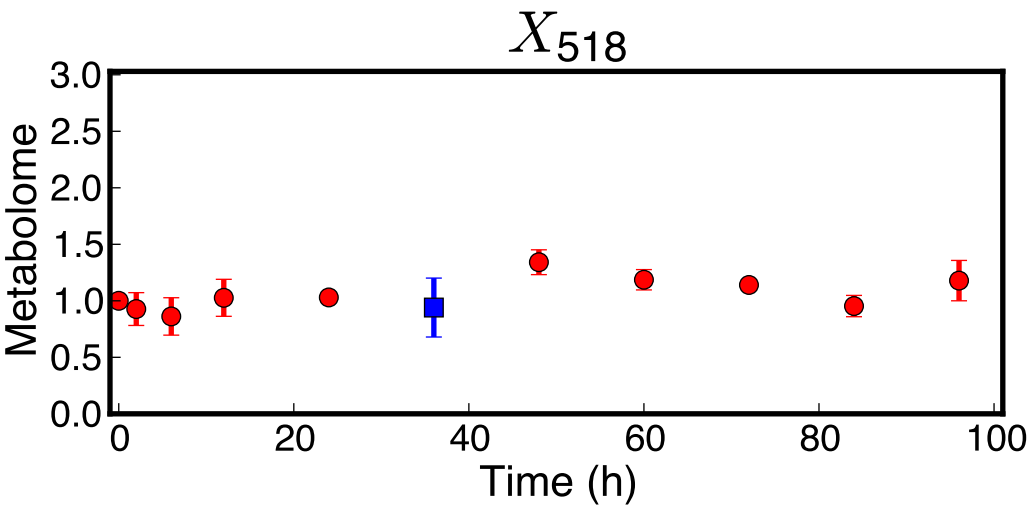

X_{513}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

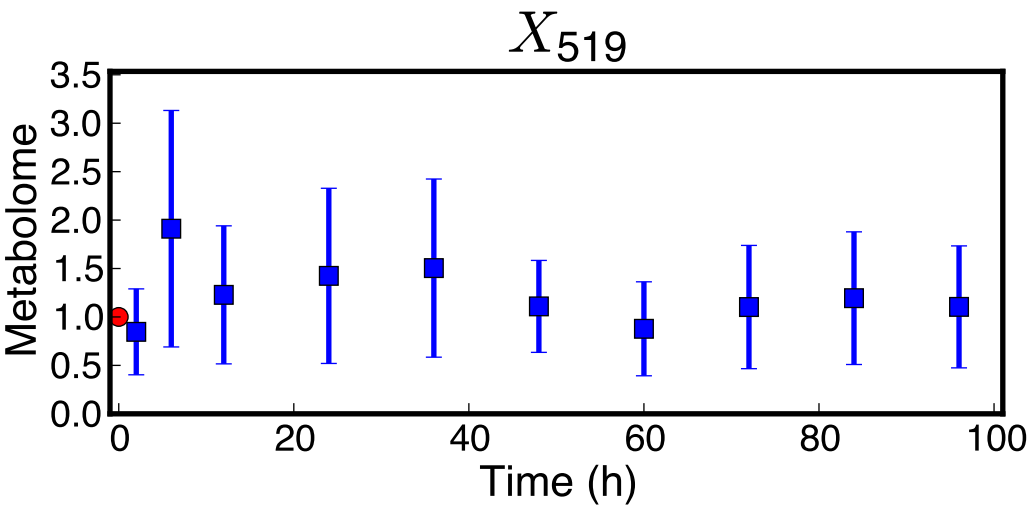

X_{514}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

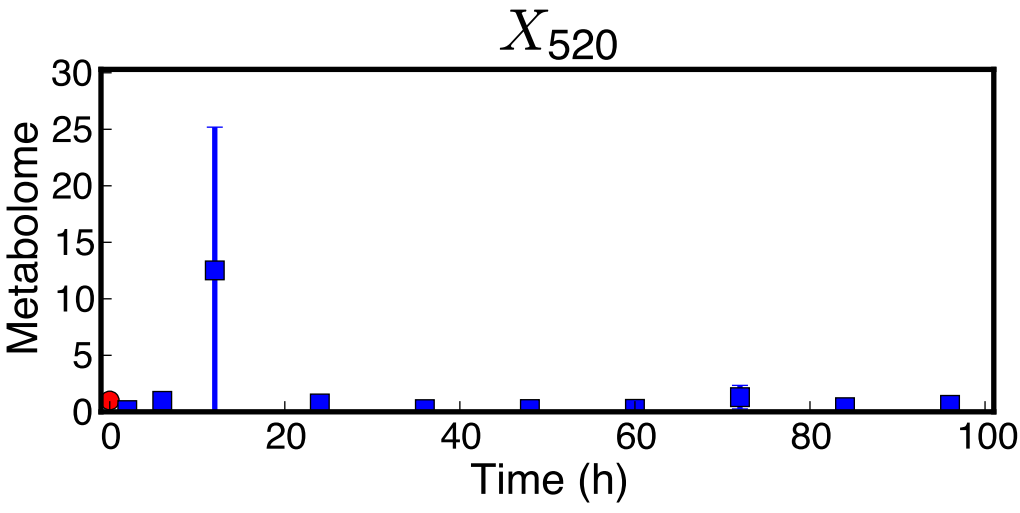

X_{515}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

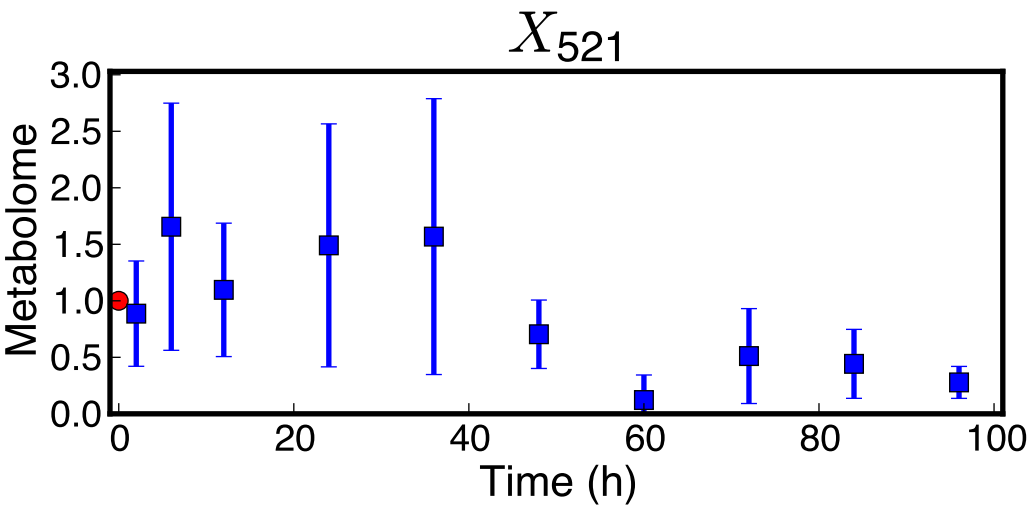

X_{516}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

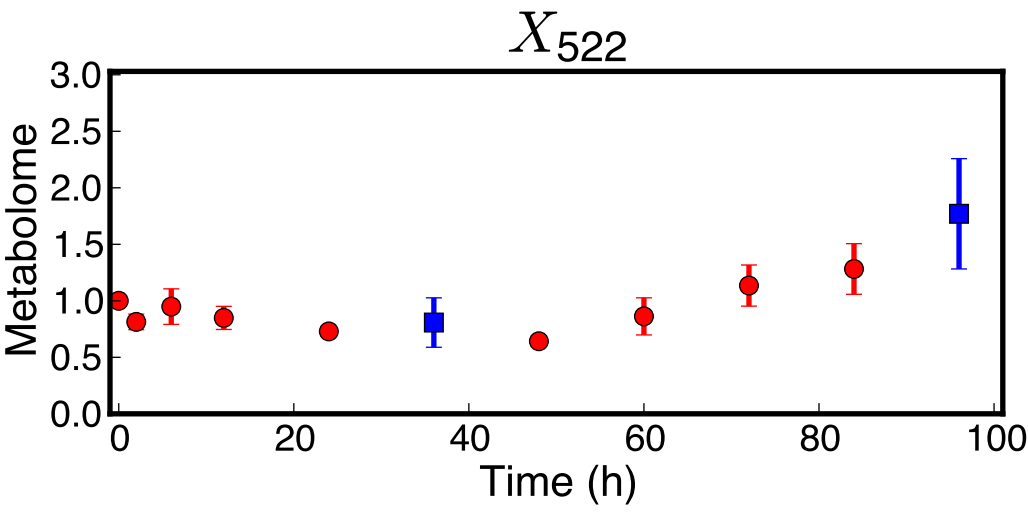

X_{517}
Metabolome
0
2
4
6
8
0
20
40
60
80
100
Time (h)

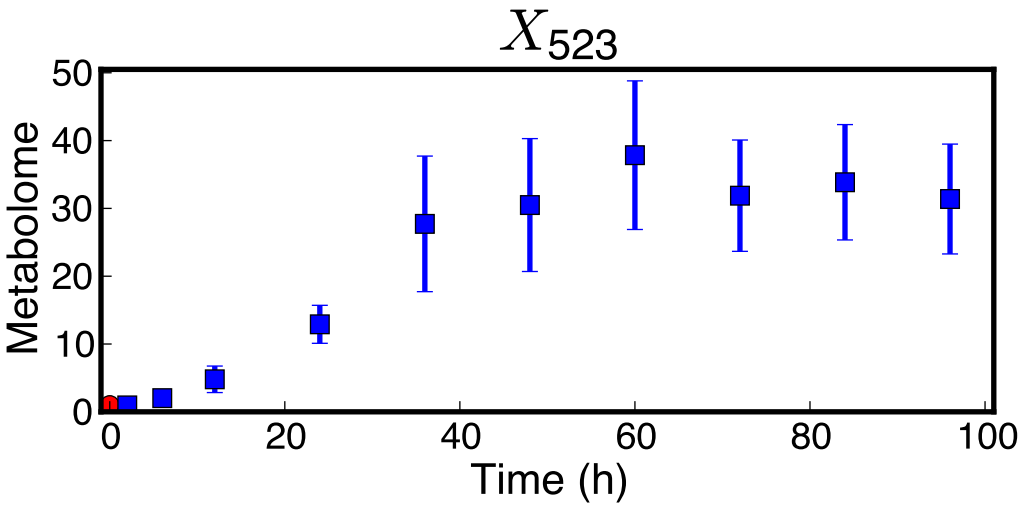

X_{518}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

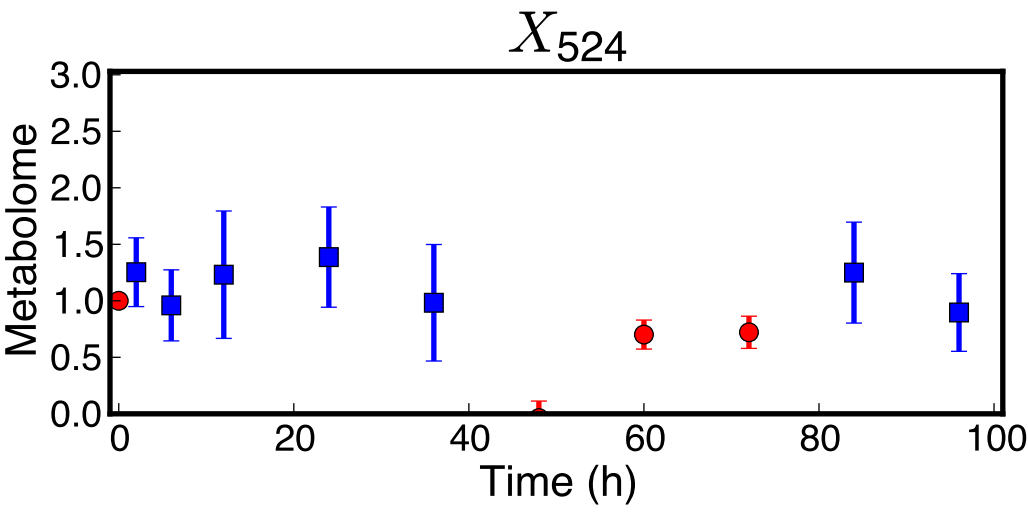

X_{519}
Metabolome
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

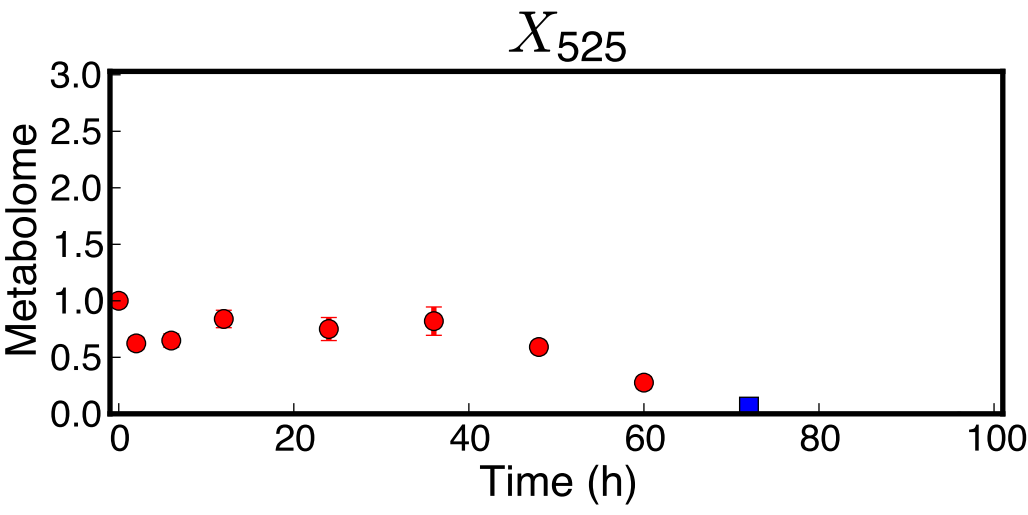

X_{520}
Metabolome
Time (h)
0
5
10
15
20
25
30
0
20
40
60
80
100

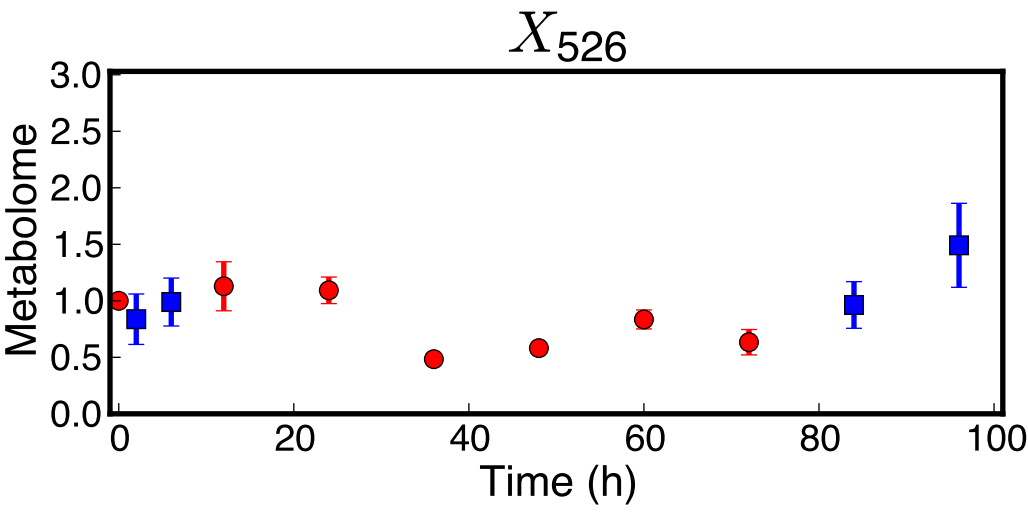

X_{521}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

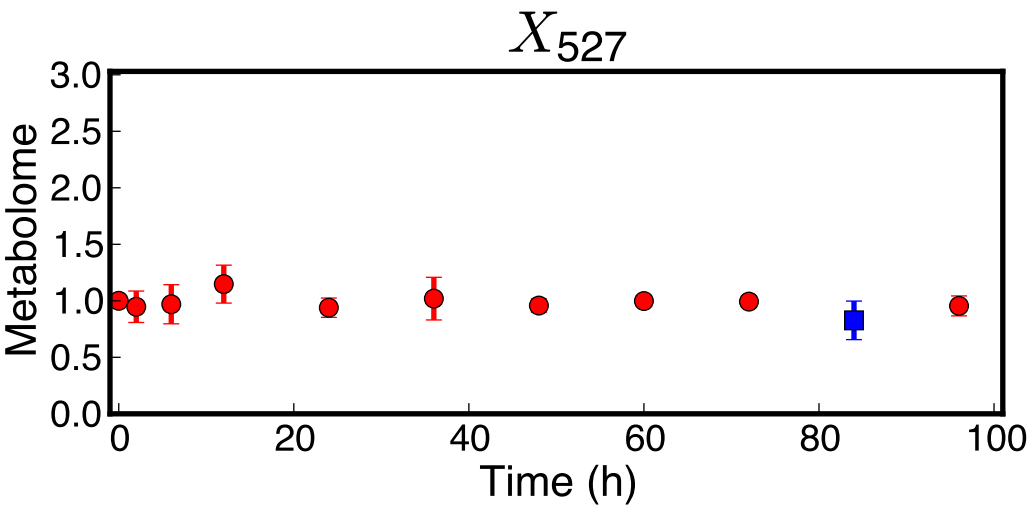

X_{522}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

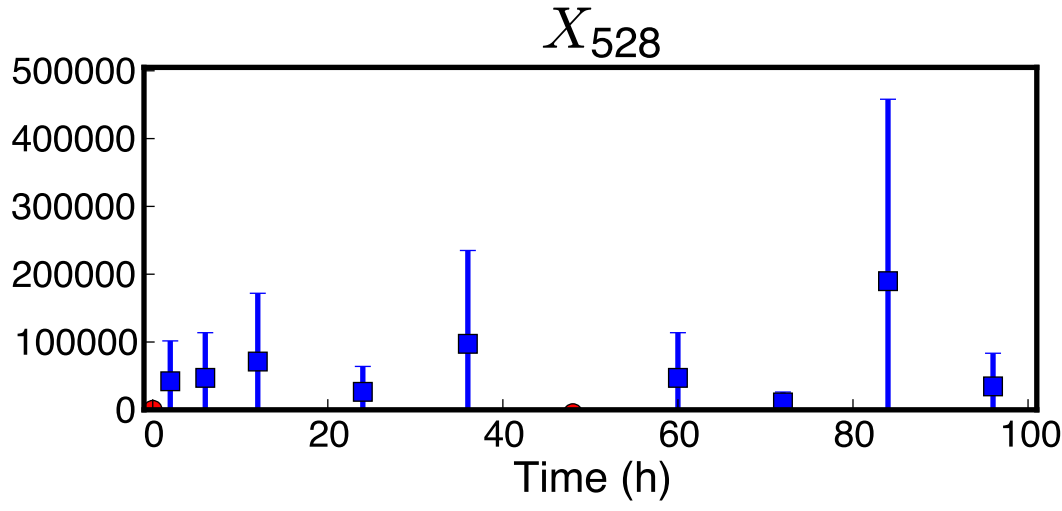

X_{523}
Metabolome
Time (h)
0
10
20
30
40
50
0
20
40
60
80
100

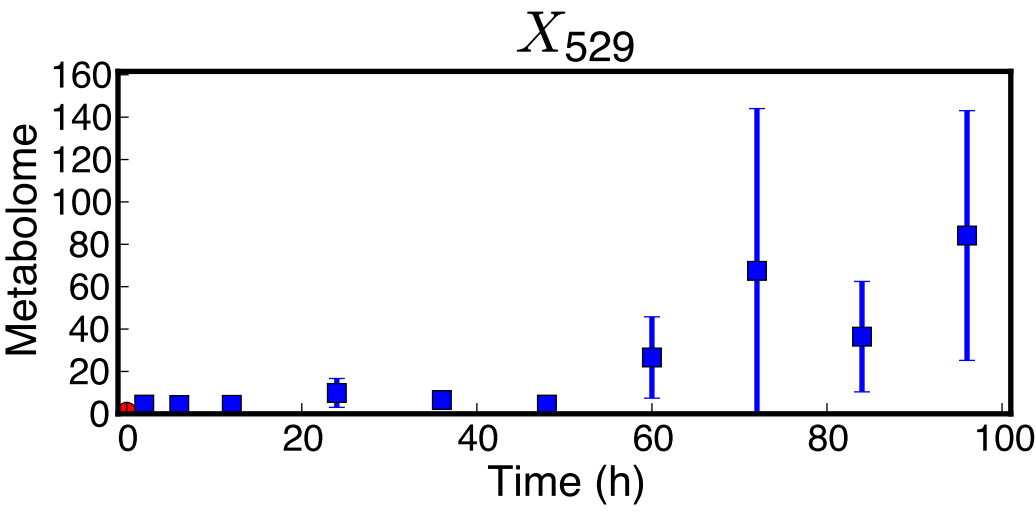

X_{524}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

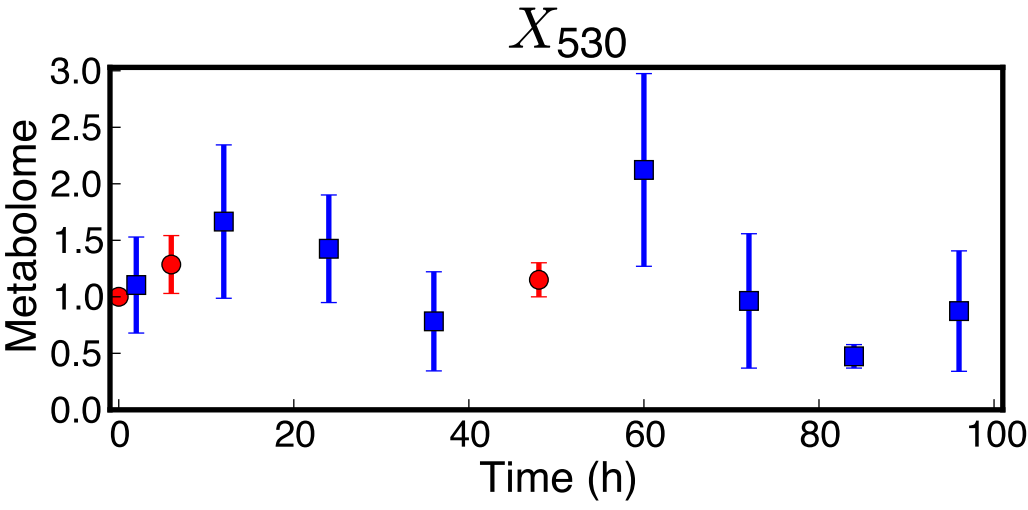

X_{525}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

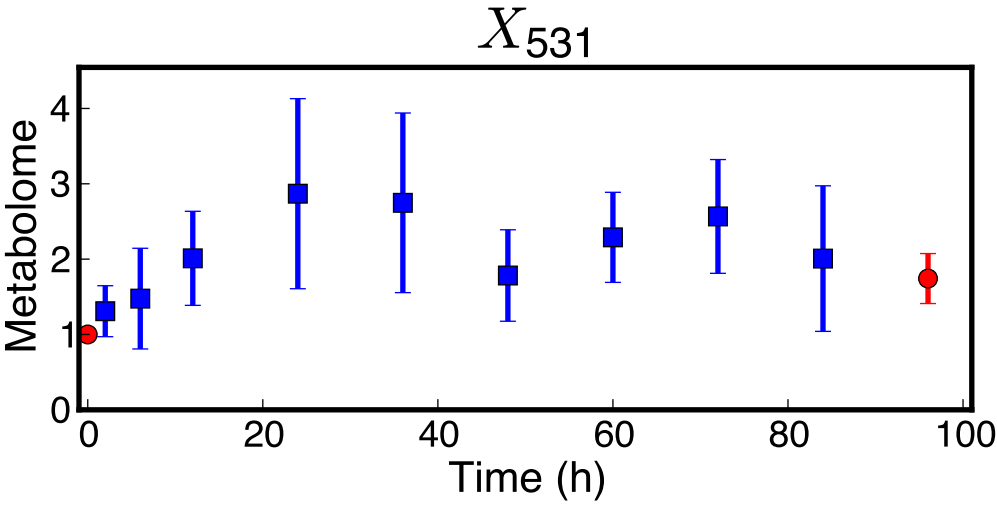

X_{526}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

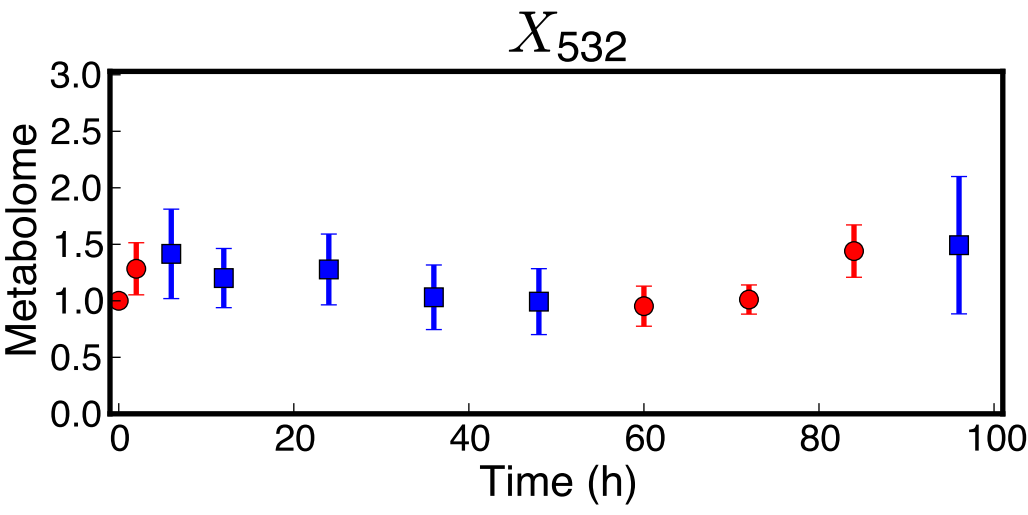

X_{527}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)

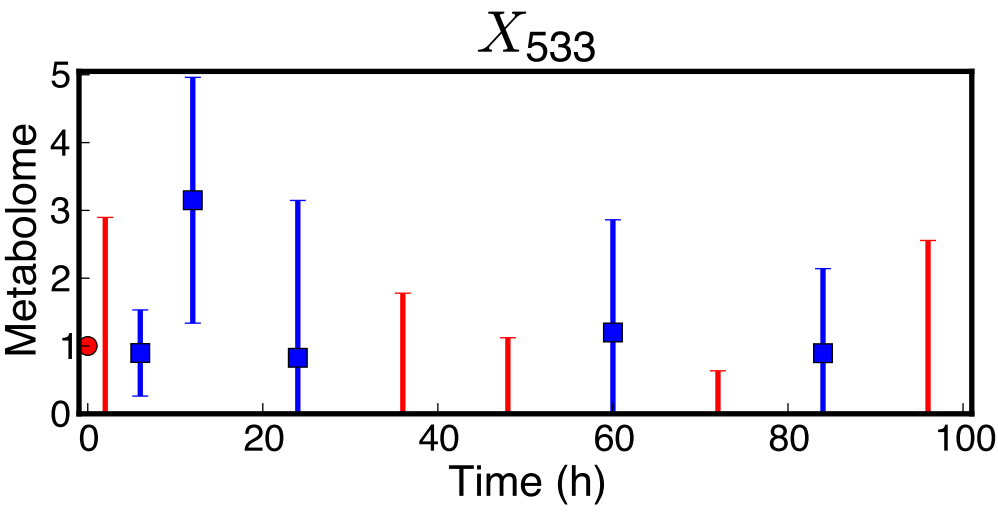

X_{528}
500000
400000
300000
200000
100000
0
0
20
40
60
80
100
Time (h)


X_{529}
Metabolome
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
Time (h)


X_{530}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{531}
Metabolome
0
1
2
3
4
0
20
40
60
80
100
Time (h)


X_{532}
Metabolome
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
Time (h)


X_{533}
Metabolome
Time (h)
0
1
2
3
4
5
0
20
40
60
80
100