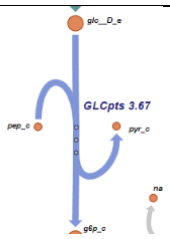
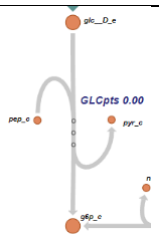
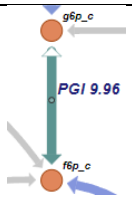
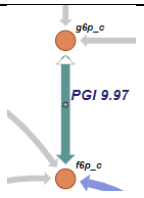
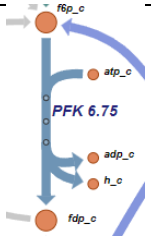
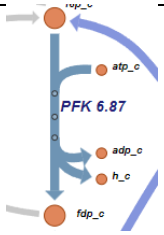
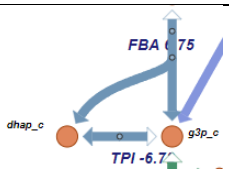
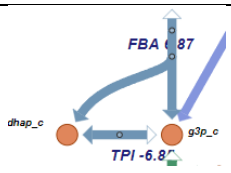
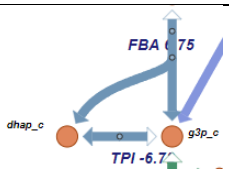
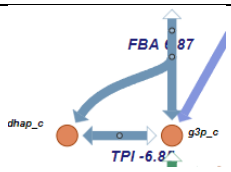
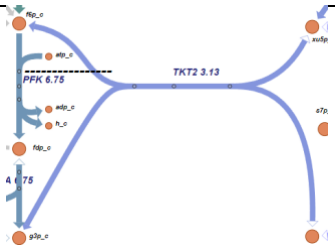
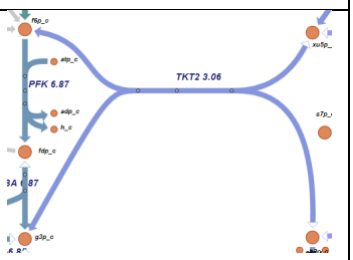
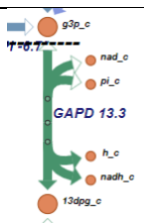
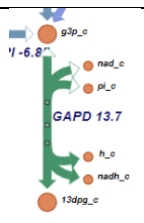
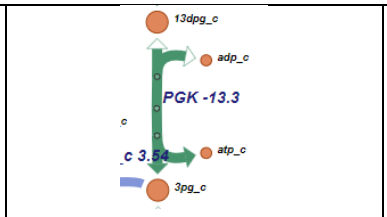
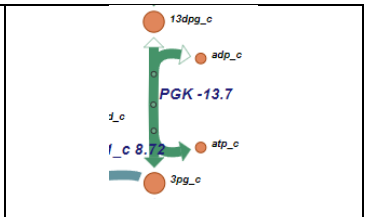
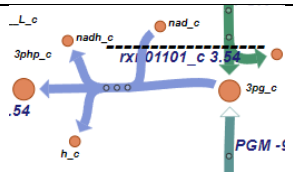
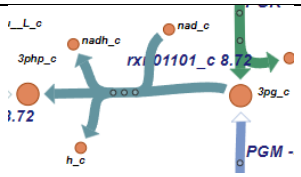
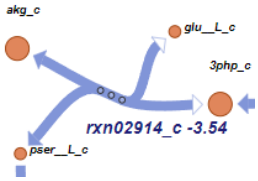
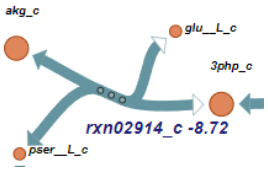
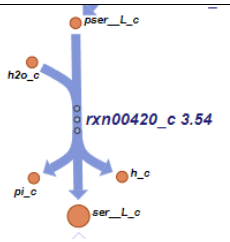
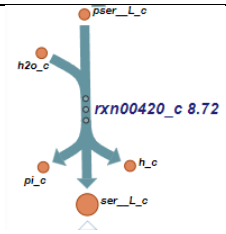
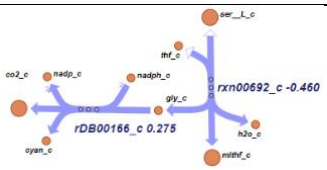
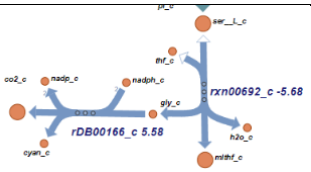
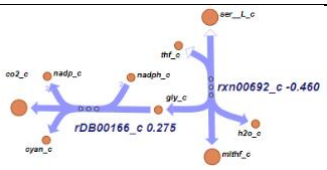
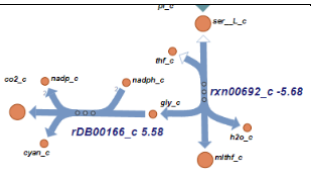
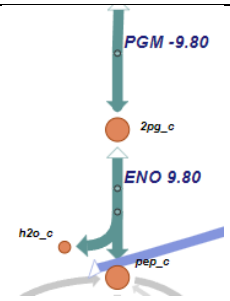
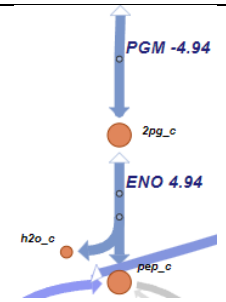
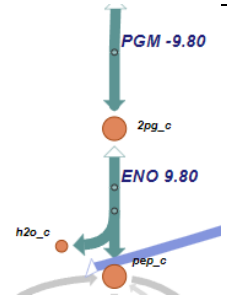
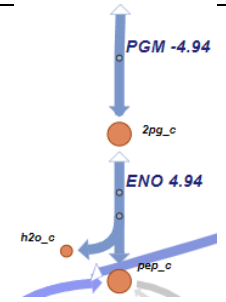
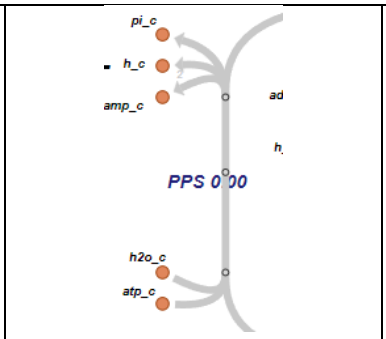
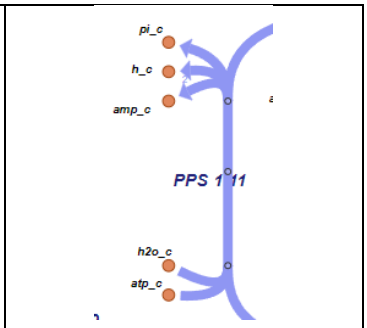
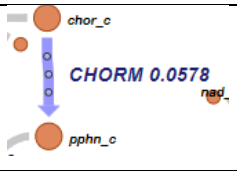
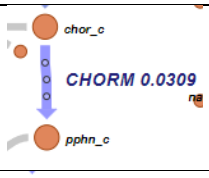
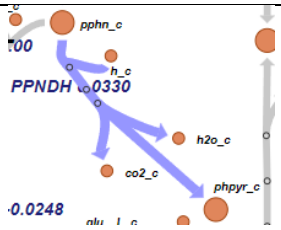
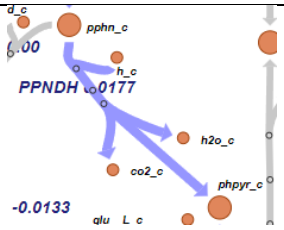
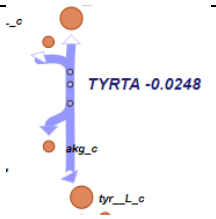
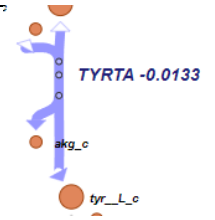
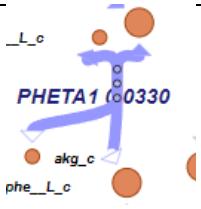
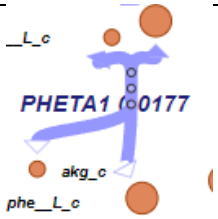
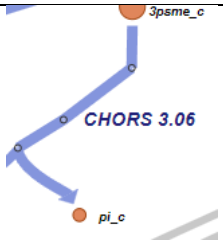
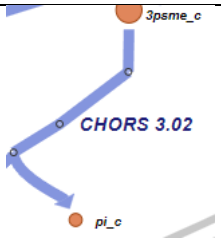
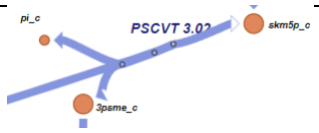
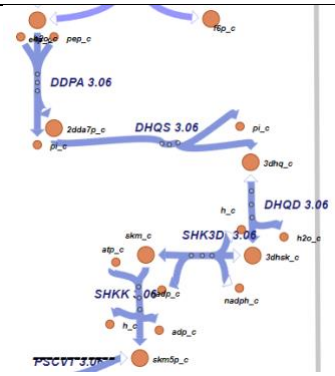
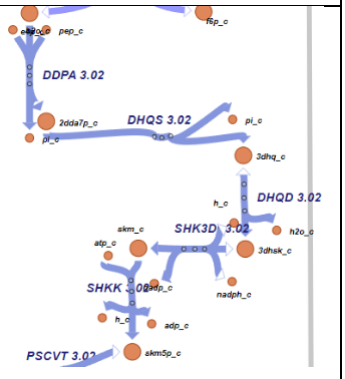
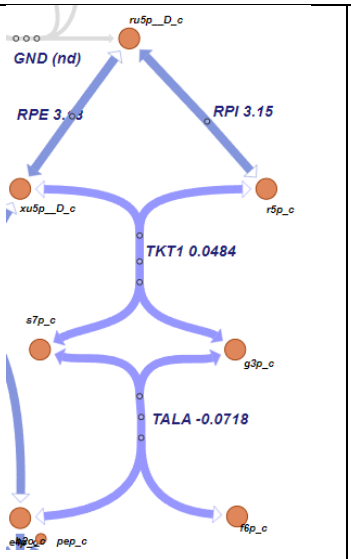
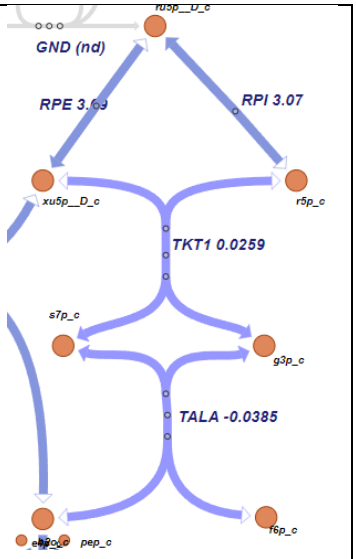
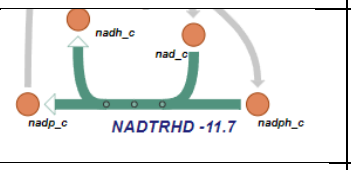
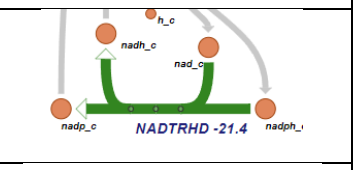
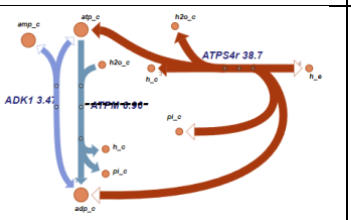
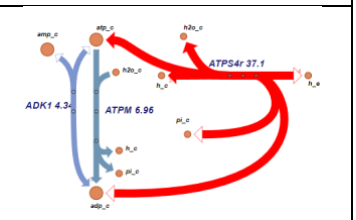
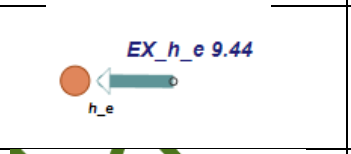
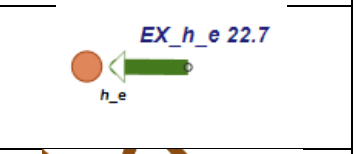
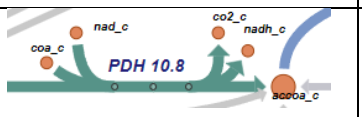
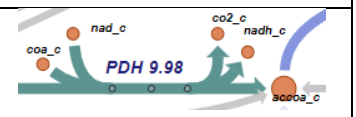
The list of reaction that undergoes minor to major flux alteration in wildtype compared to mutant from Scheme_0 OptGene simulation.

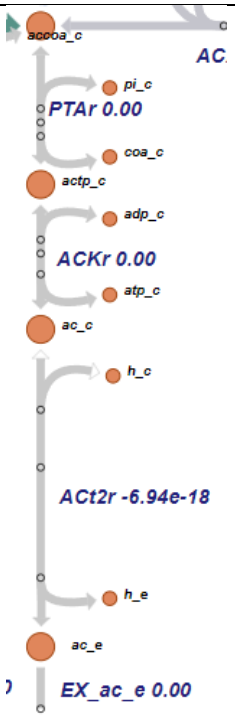
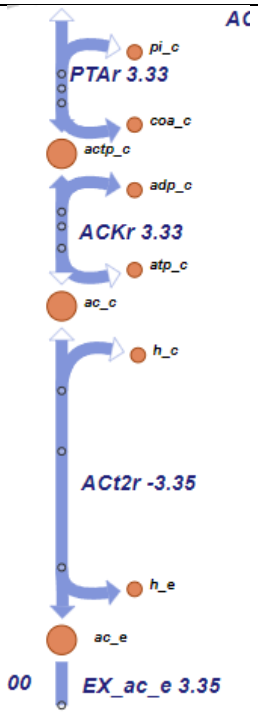
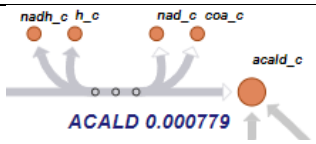
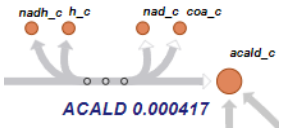
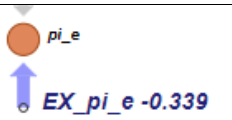
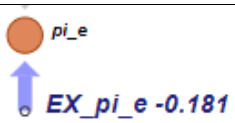
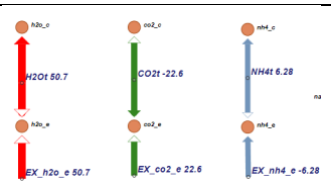
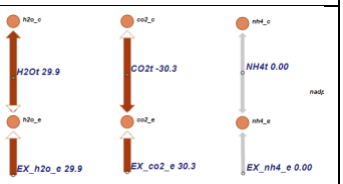
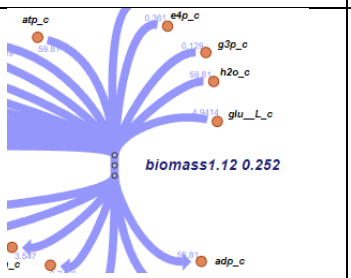
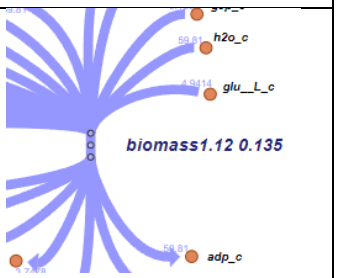
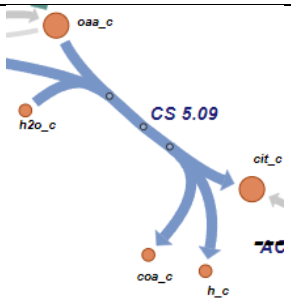
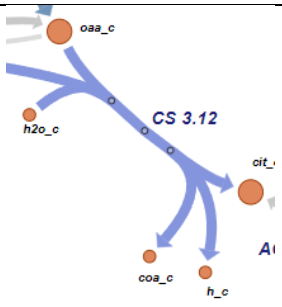
Yellow highlight shows the reaction in cyanide pathway production that begins from the 3-phospho-glycerate (3pg) conversion in glycolysis reaction.

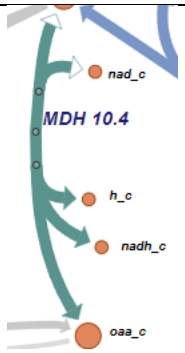
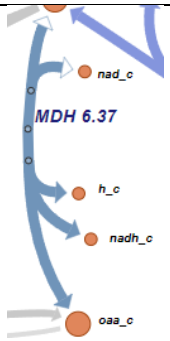
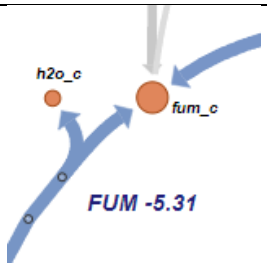
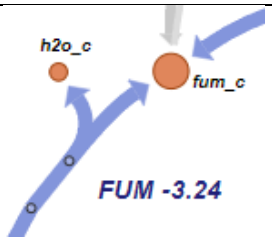
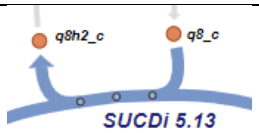
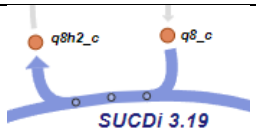
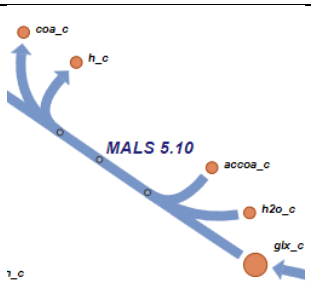
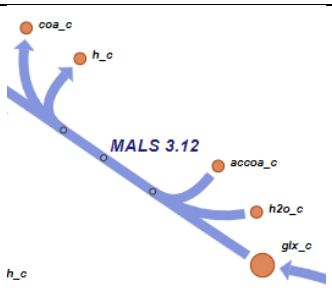
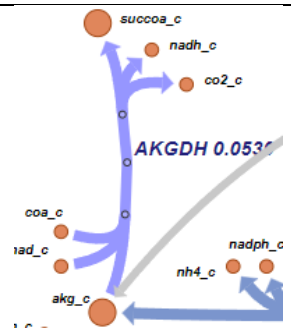
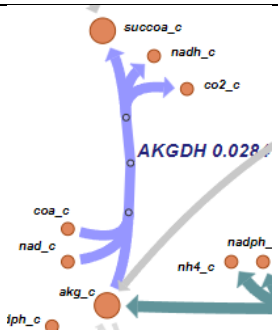
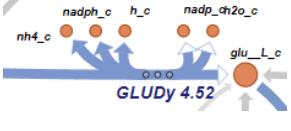
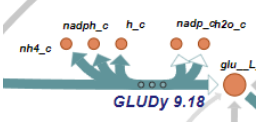
No	Reaction	Value		Capture	
		Before	After	Before	After
1	GLCpts	3.67	0.00		
2	PGI	9.96	9.97		
3	PFK	6.75	6.87		
4	FBA	6.75	6.87		
5	TPI	-6.7?	-6.8?		
6	TKT2	3.13	3.06		
7	GADP	13.3	13.7		

8	PGK	-13.3	-13.7		
9	Rxn01101_c	3.54	8.72		
10	Rxn02914_c	-3.54	-8.72		
11	Rxn00420_c	3.54	8.72		
12	rDB00166_c	0.275	5.58		
13	Rxn00692_c	-0.460	-5.68		
14	PGM	-9.80	-4.94		
15	ENO	9.80	4.94		

16	PPS	0.00	1.11		
17	CHORM	0.0578	0.0309		
18	PPNDH	0.0330	0.0177		
19	TYRTA	-0.0248	-0.0133		
20	PHETA	0.0330	0.0177		
21	CHORS	3.06	3.02		
22	PSCVT	3.06	3.02		
23	DDPA	3.06	3.02		
24	DHQS	3.06	3.02		
25	DHQD	3.06	3.02		
26	SHK3D	3.06	3.02		
27	SHKK	3.06	3.02		
28	RPE	3.??	3.??		

29	RPI	3.15	3.07		
30	TKT1	0.0484	0.0259		
31	TALA	-0.0718	-0.0385		
32	NADTRHD	-11.7	-21.4		
33	ADK1	3.47	4.34		
34	ATPS4r	38.7	37.1		
35	EX_h_e	9.44	22.7		
36	NADH16	26.0	28.0		
37	PDH	10.8	9.98		
38	PTAr	0.00	3.33		
39	ACKr	0.00	3.33		
40	ACt2r	-6.94e-18	-3.35		

41	EX_ac_e	0.00	3.35		
42	ACALD	0.000779	0.000417		
43	EX_pi_e	-0.339	-0.181		
44	H2Ot	50.7	29.9		
45	EX_h2o_e	50.7	29.9		
46	CO2t	-22.6	-30.3		
47	EX_co2_e	22.6	30.3		
48	NH4t	6.28	0.00		
49	EX_nh4_e	-6.28	0.00		
50	Biomass1.12	0.252	0.135		
51	CS	5.09	3.12		

52	MDH	10.4	6.37		
53	FUM	-5.31	-3.24		
54	SUCDi	5.13	3.19		
55	MALS	5.10	3.12		
56	ICL	5.09	3.12		
57	AKGDH	0.053?	0.028?		
58	GLUDy	4.52	9.18		

59	GLNS	4.84	9.35