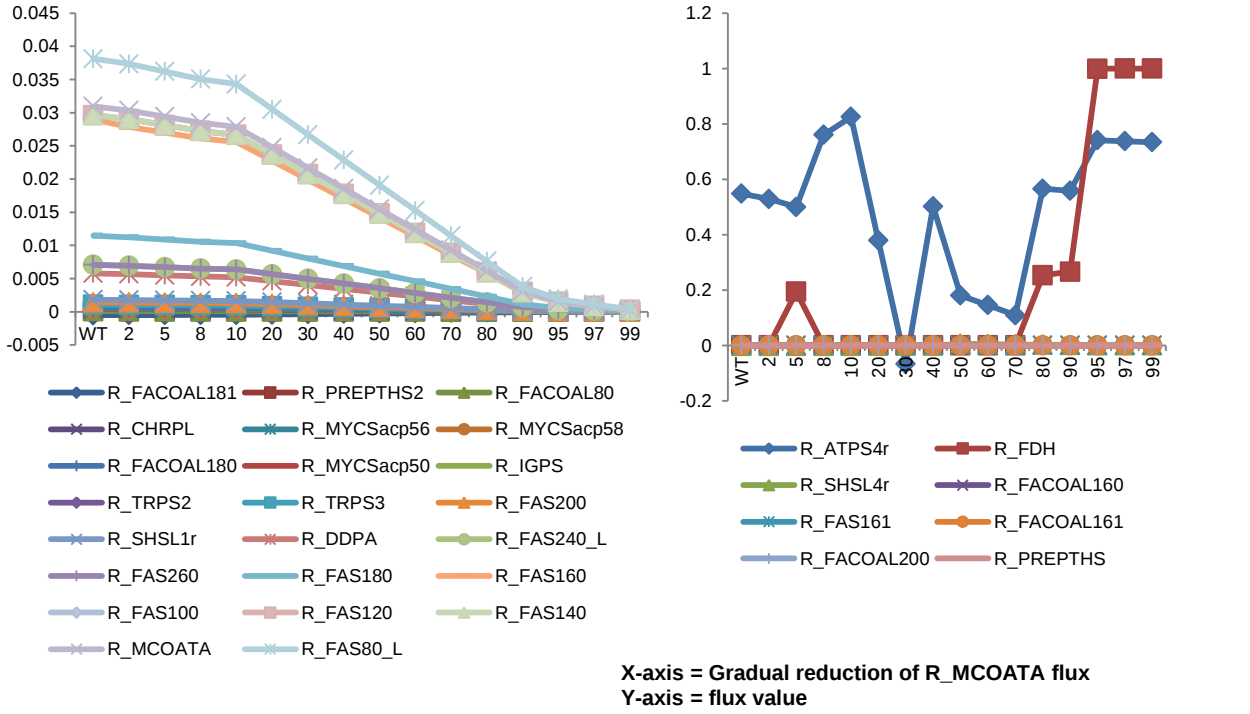
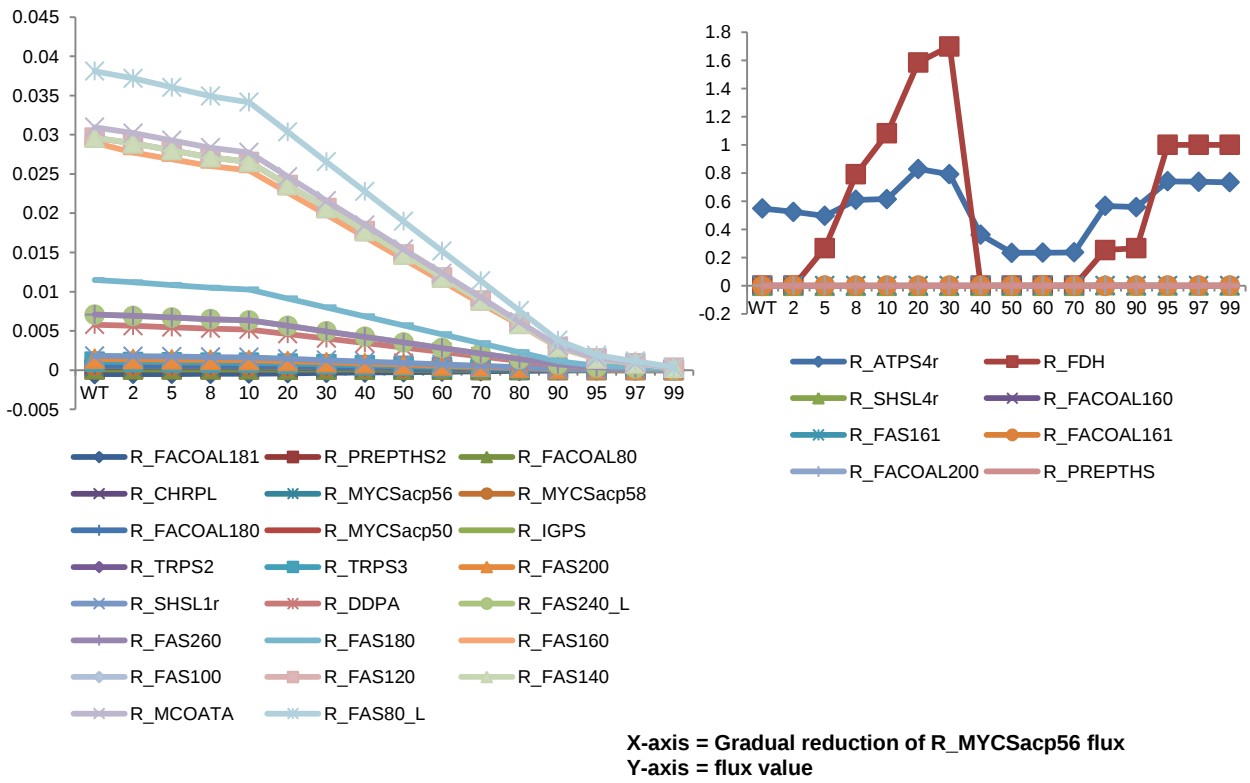
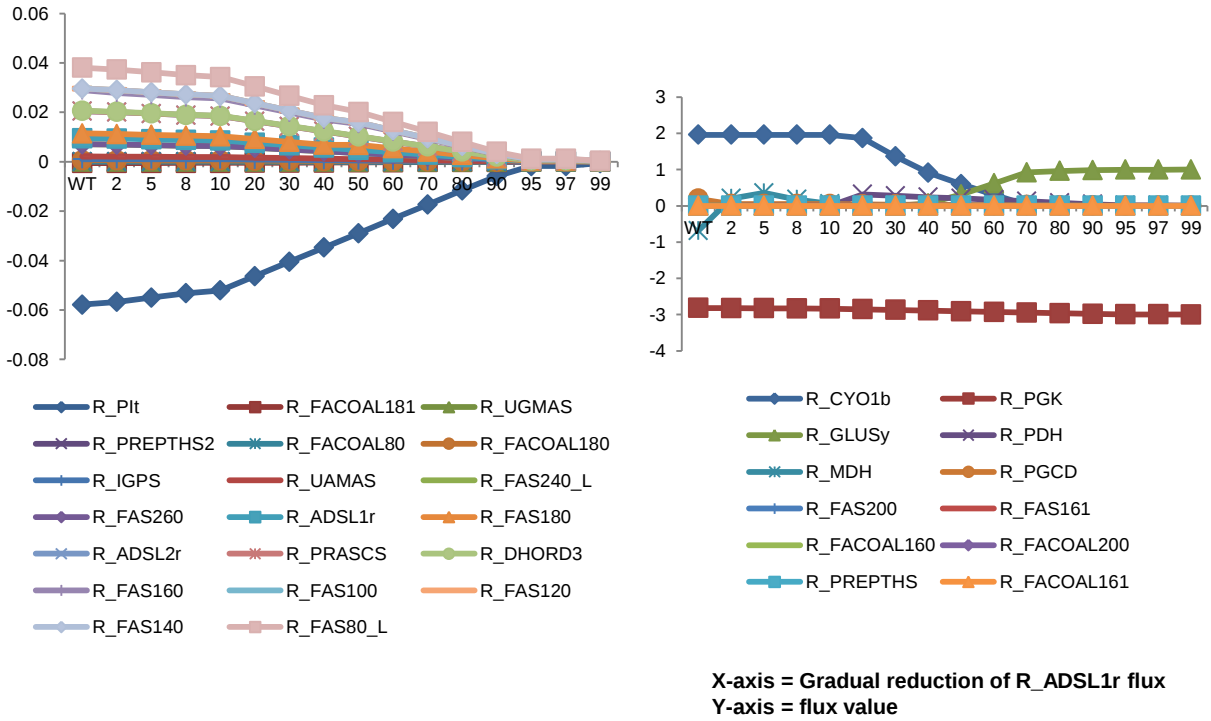


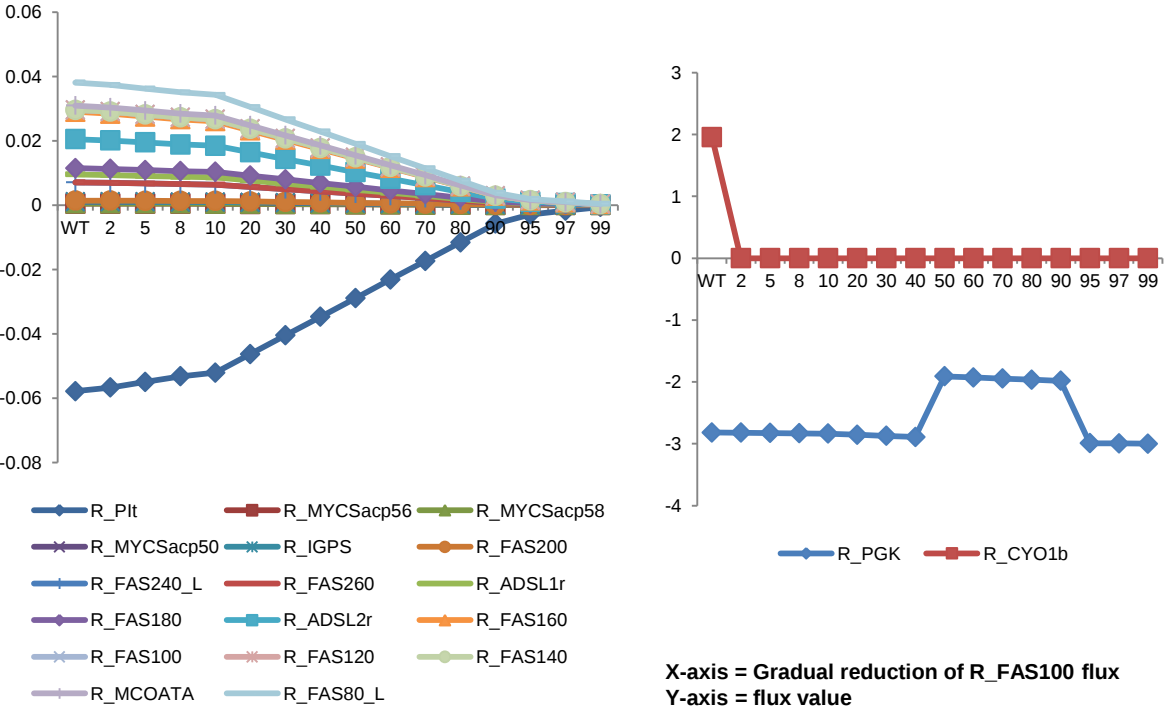


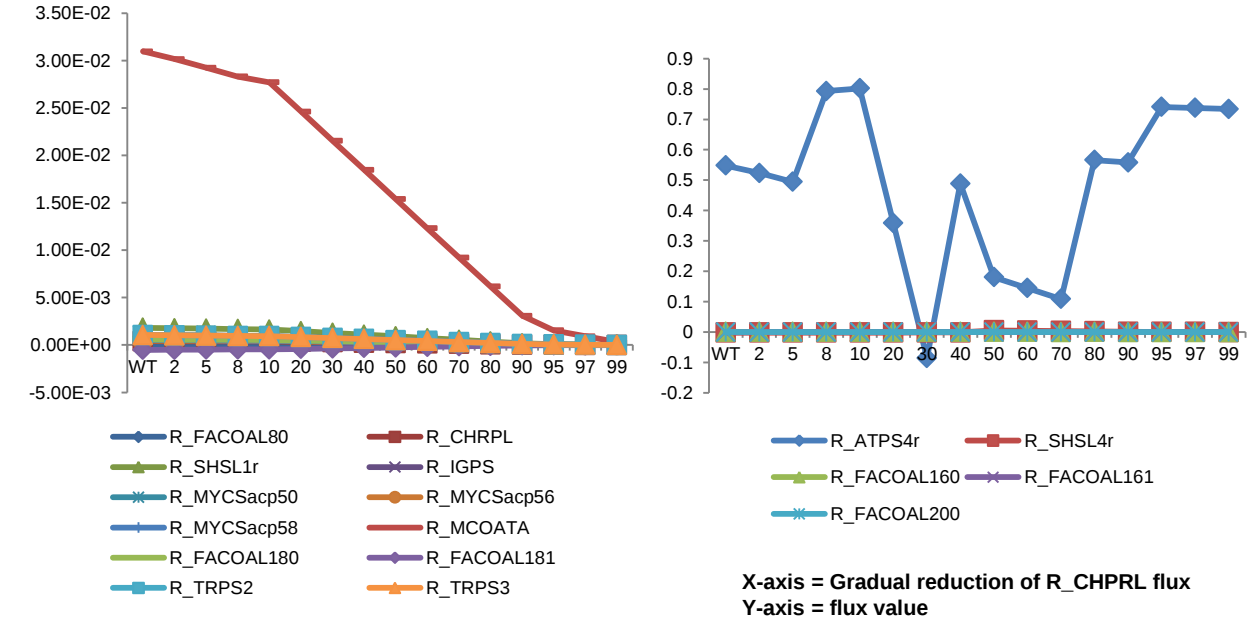
Knock down of Rv2246 (kasB; mycolic acid synthase (C56); MYCSacp56)



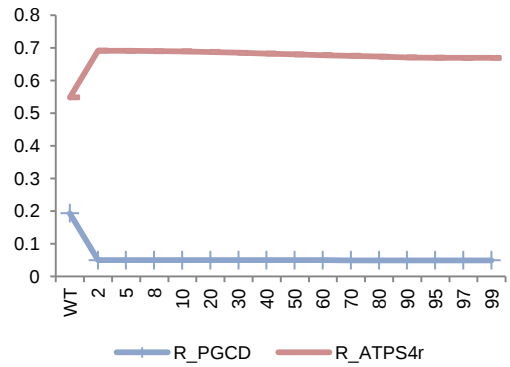


Knock down of *Rv1484* (*inhA*; fatty acid synthase (n-C10:0); FAS100)

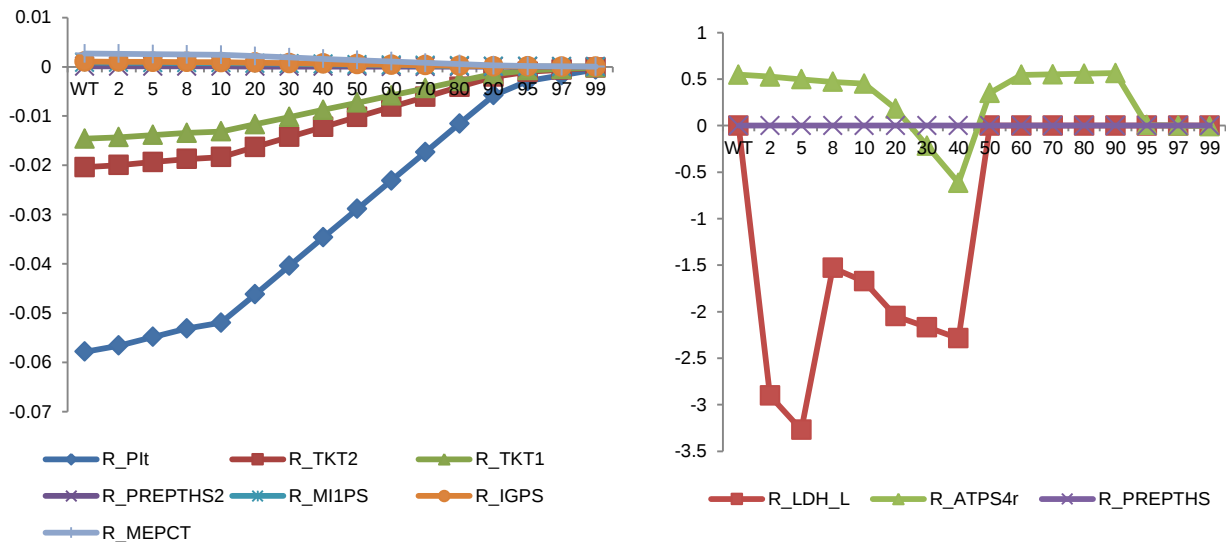




Knock down of *Rv1449c* (*tkt*; transketolase; TKT1,TKT2)

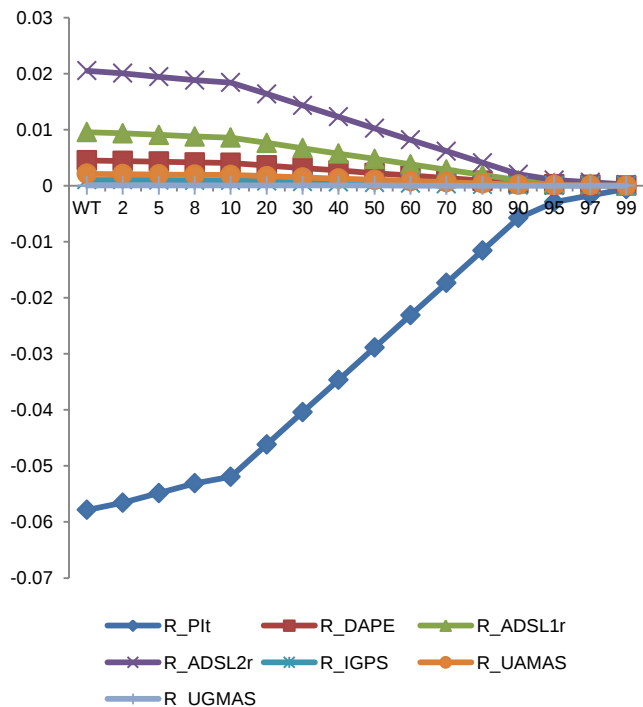


Knock down of *Rv3582c* (*spd*, 2-C-methyl-D-erythritol 4-phosphate cytidyltransferase; MEPCT)

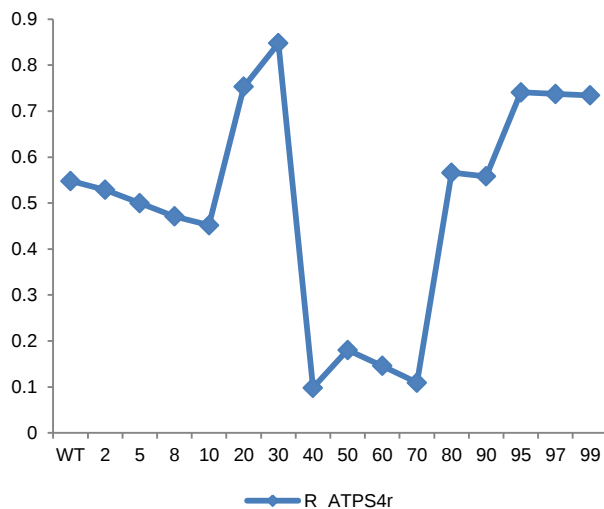
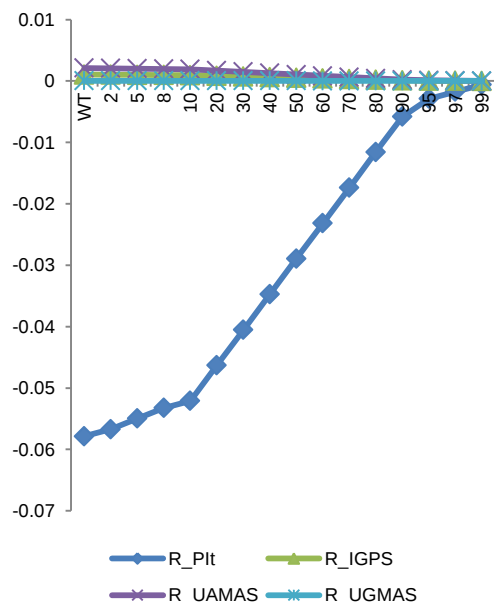


X-axis = Gradual reduction of R_MEPCT flux
Y-axis = flux value

Knock down of *Rv2152c* (*murC* ; UDP-N-acetylmuramoyl-L-alanine synthetase; UAMAS)



X-axis = Gradual reduction of R_UAMAS flux
Y-axis = flux value



X-axis = Gradual reduction of R_DAPE flux
 Y-axis = flux value

Abbreviations: R_IGPS - Indole-3-phosphate glycerol synthase; R_UGMAS; R_UAMAS- UDP-N-acetylmuramoyl-L-alanine synthetase; R_PREPHTS, R_PREPHTS2- phenolic pthiocerol precursor synthesis; R_MEPC- 2C-methyl-D-erythritol-4-phosphate cytidyltransferase; R_MYCsacp50, R_MYCsacp56, R_MYCsacp58 - mycolic acid synthase; R_DAPE- diaminopimelate epimerase; R_CHRPL - chorismate pyruvate lyase; R_FAS100, R_FAS120, R_FAS140, R_FAS160, R_FAS161, R_FAS180, R_FAS200, R_FAS260, R_FAS80_L, R_FAS240_L- fatty acid synthase; R_DASYN160, R_DASYN160190- CDP-diacylglycerol synthetase; R_MCOATA- malonyl CoA-ACP transacylase. R_MDH- malate dehydrogenase; R_Pit - inorganic phosphate exchange diffusion; R_PGK- phosphoglycerate kinase; R_CYO1b - cytochrome C oxidase 2 protons; R_G3PD1- glycerol-3-phosphate dehydrogenase NAD; R_PGCD - phosphoglycerate dehydrogenase; R_GLNS- glutamine synthetase; R_ADLS1r - adenylysuccinate lyase; R_ADLS2r - adenylosuccinate lyase; R_TKT1, TKT2 – transketolase; R_PDH - pyruvate dehydrogenase; R_PRASCS - phosphoribosylaminoimidazole-succinocarboxamide synthase; R_GLUSy - glutamate synthase NADPH; R_DHFR - dihydrofolate reductase; R_OCOAT1r - 3-oxoacid CoA transferase; R_GLCabc - D-glucose transport via ABC system; R_SHSL1r; R_SHSL4r - O-succinylhomoserine lyase; R_FACOAL80, R_FACOAL160, R_FACOAL161, R_FACOAL180, R_FACOAL181, R_FACOAL200 - fatty acid CoA ligase; R_ATPS4r - ATP synthase (four protons for one ATP); R_MI1PS- myo-Inositol-1-phosphate synthase; R_CYSS - cysteine synthase; R_L_LACD - L-Lactate dehydrogenase irreversible; R_FD - formate dehydrogenase; R_LD - L-lactate dehydrogenase; R_THRS - threonine synthase; R_DDPA - 3-deoxy-D-arabino-heptulosonate 7-phosphate; R_DHORD2, R_DHORD3 - dihydroorotic acid dehydrogenase; R_FBA - fructose-bisphosphate aldolase; R_GLCabc - D-glucose transport via ABC system