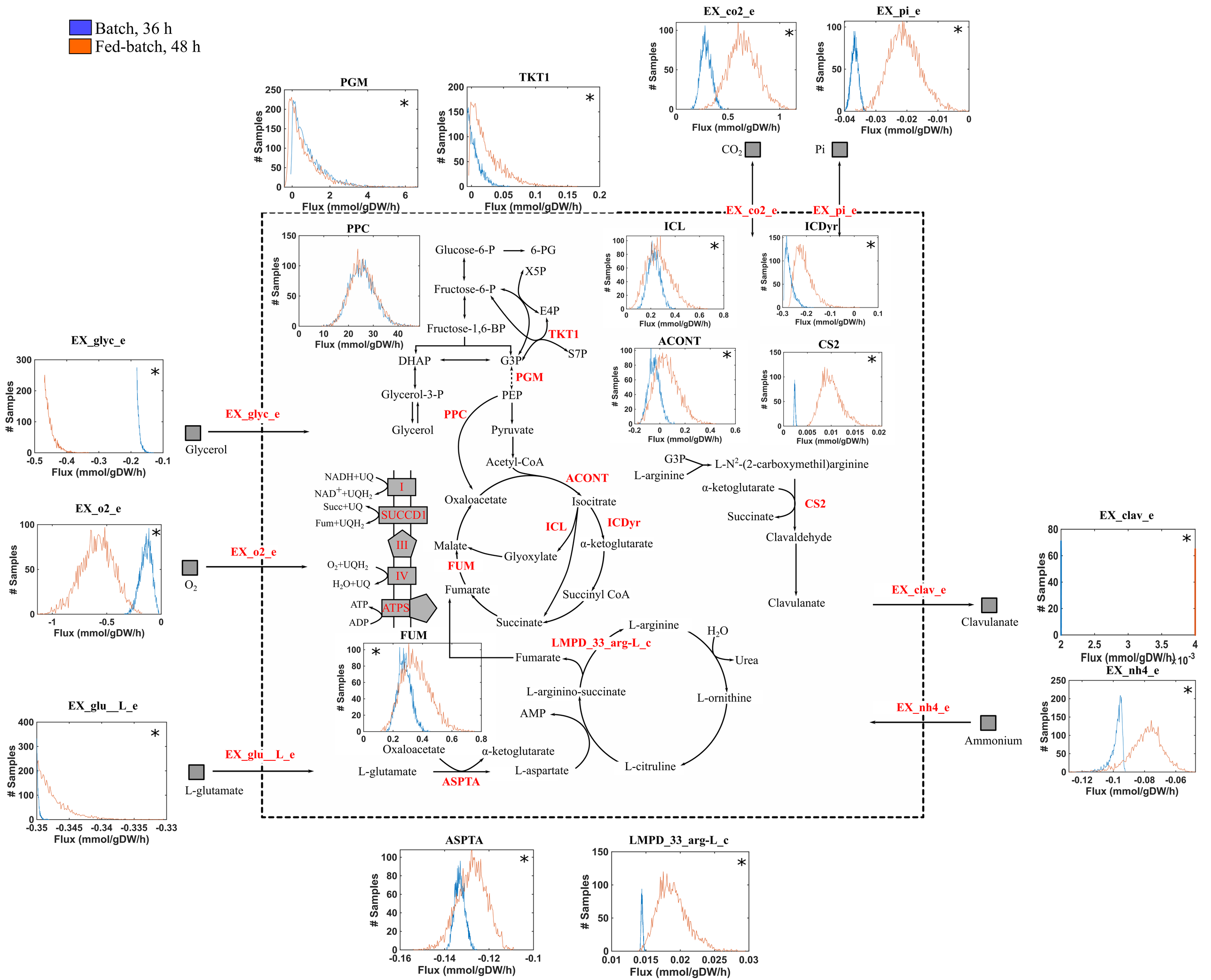
Batch, 36 h
Fed-batch, 48 h
EX_co2_e
EX_pi_e
PGM
TKT1
PPC
ICL
ICDyr
ACONT
CS2
EX_glyc_e
EX_o2_e
EX_glu__L_e
FUM
ASPTA
LMPD_33_arg-L_c
EX_clav_e
EX_nh4_e
Samples
Flux (mmol/gDW/h)
CO2
Pi
Glucose-6-P
6-PG
X5P
Fructose-6-P
E4P
Fructose-1,6-BP
S7P
DHAP
G3P
Glycerol-3-P
Glycerol
PEP
Pyruvate
Acetyl-CoA
Oxaloacetate
Isocitrate
α-ketoglutarate
Succinyl CoA
Succinate
Fumarate
Malate
Glyoxylate
NADH+UQ
NAD+UQH2
Succ+UQ
Fum+UQH2
O2+UQH2
H2O+UQ
ATP
ADP
I
SUCCD1
III
IV
ATPS
L-arginine
L-N2-(2-carboxymethil)arginine
α-ketoglutarate
Succinate
Clavaldehyde
Clavulanate
H2O
Urea
L-ornithine
L-citruline
L-aspartate
AMP
L-arginino-succinate
L-glutamate
Glycerol
O2
Ammonium