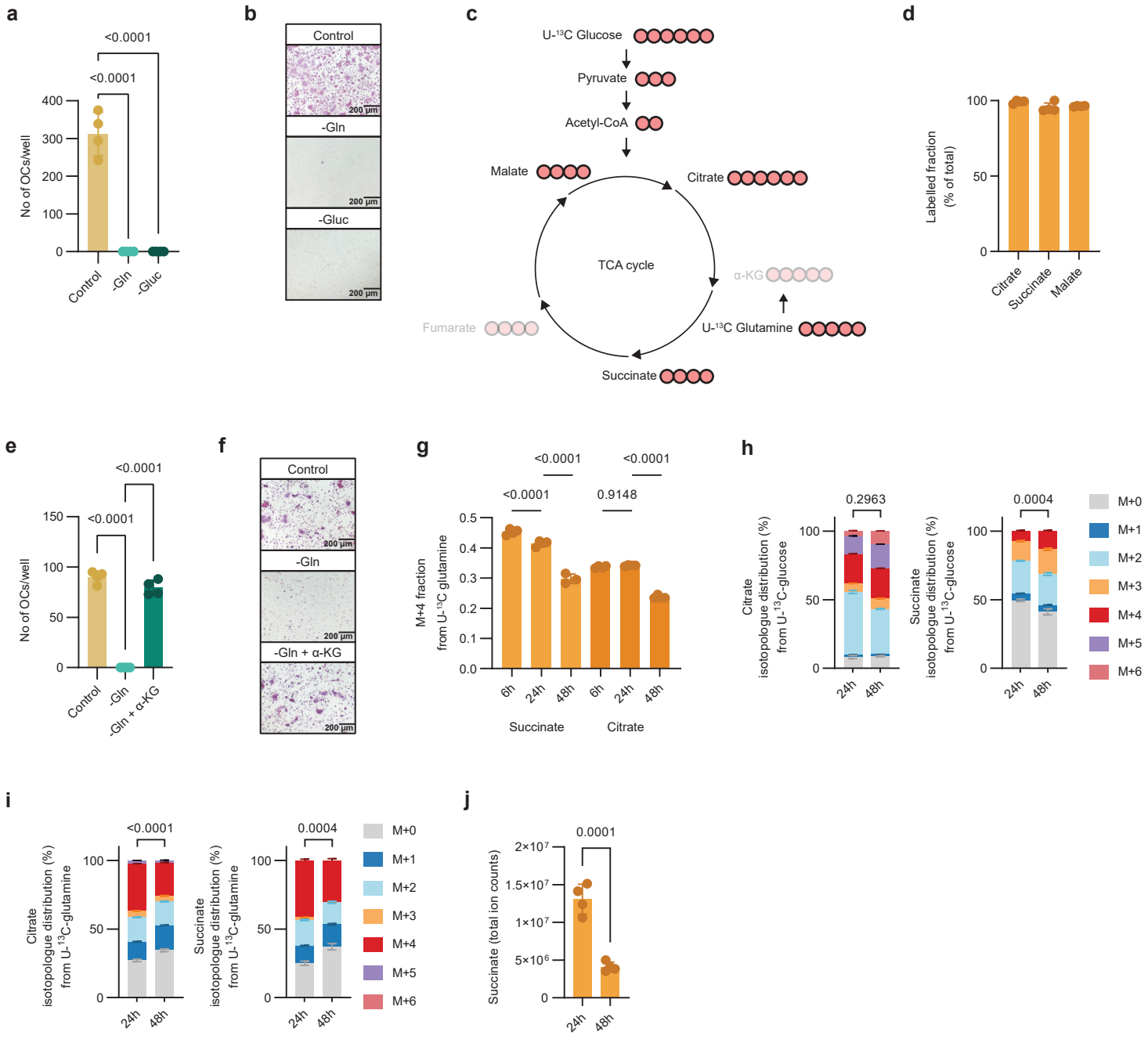
Figure S1


a
<0.0001
<0.0001
No of OCs/well
400
300
200
100
0
Control
-Gln
-Gluc
b
Control
-Gln
-Gluc
200 µm
c
U-13C Glucose
Pyruvate
Acetyl-CoA
Malate
Citrate
TCA cycle
α-KG
U-13C Glutamine
Fumarate
Succinate
d
Labelled fraction (% of total)
100
50
0
Citrate
Succinate
Malate
e
<0.0001
<0.0001
No of OCs/well
150
100
50
0
Control
-Gln
-Gln + α-KG
f
Control
-Gln
-Gln + α-KG
200 µm
g
<0.0001
<0.0001
<0.0001
0.9148
M+4 fraction from U-13C glutamine
0.5
0.4
0.3
0.2
0.1
0.0
6h
24h
48h
6h
24h
48h
Succinate
Citrate
h
0.2963
0.0004
Citrate isotopologue distribution (%) from U-13C-glucose
Succinate isotopologue distribution (%) from U-13C-glucose
100
50
0
24h
48h
M+0
M+1
M+2
M+3
M+4
M+5
M+6
i
<0.0001
0.0004
Citrate isotopologue distribution (%) from U-13C-glutamine
Succinate isotopologue distribution (%) from U-13C-glutamine
100
50
0
24h
48h
M+0
M+1
M+2
M+3
M+4
M+5
M+6
j
0.0001
Succinate (total ion counts)
2×10^7
1.5×10^7
1×10^7
5×10^6
0
24h
48h