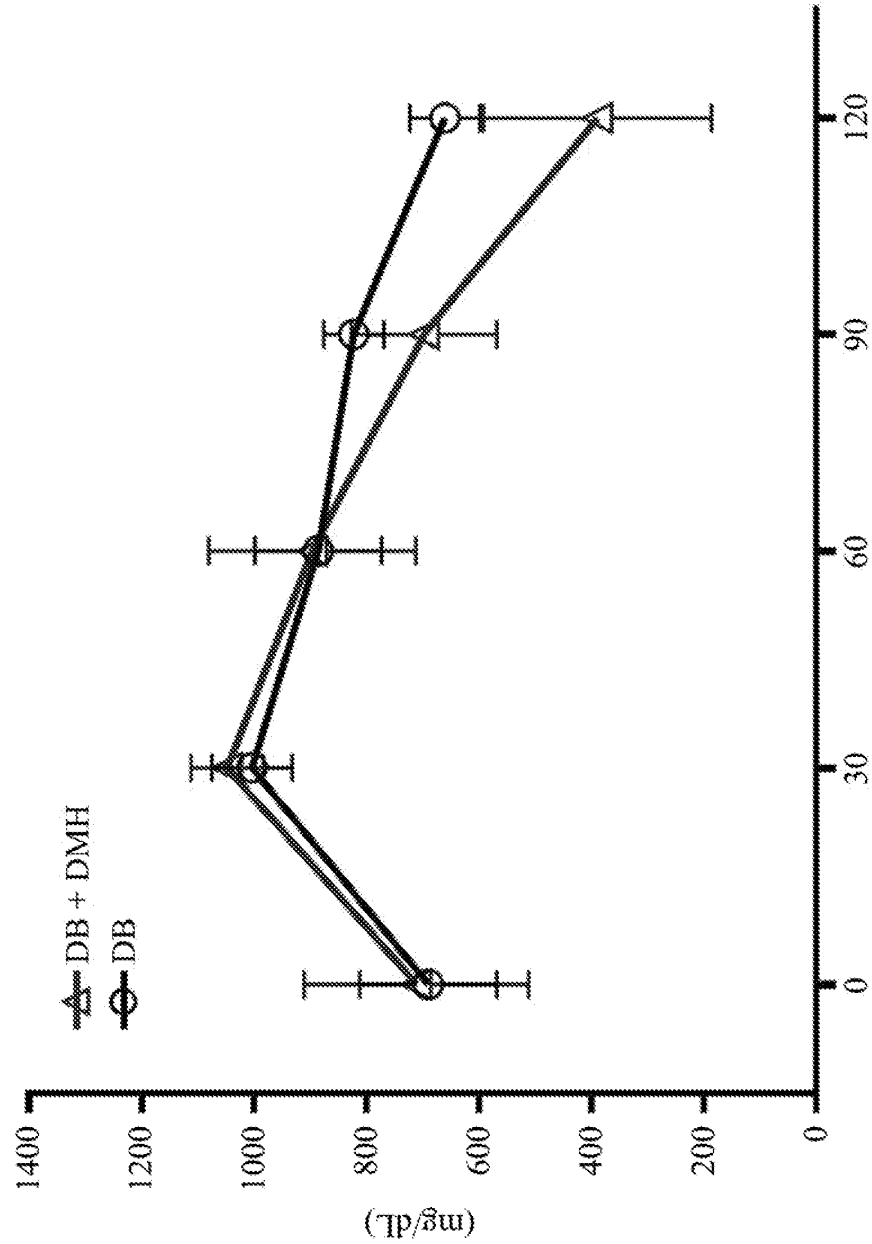


FIG. 1

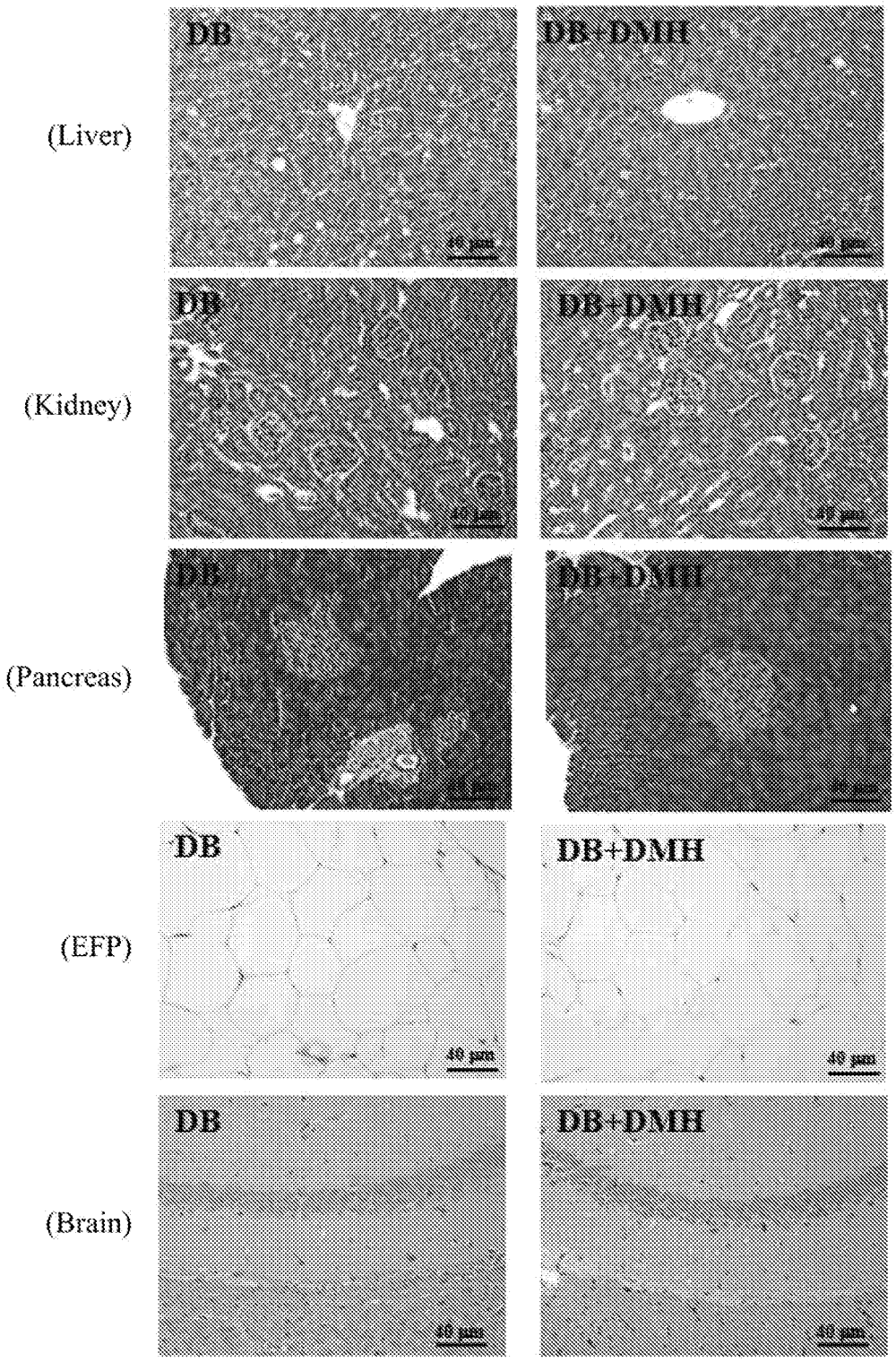

DB
DB+DMH
(Liver)
DB
DB+DMH
(Kidney)
DB
DB+DMH
(Pancreas)
DB
DB+DMH
(EFP)
DB
DB+DMH
(Brain)

FIG. 2

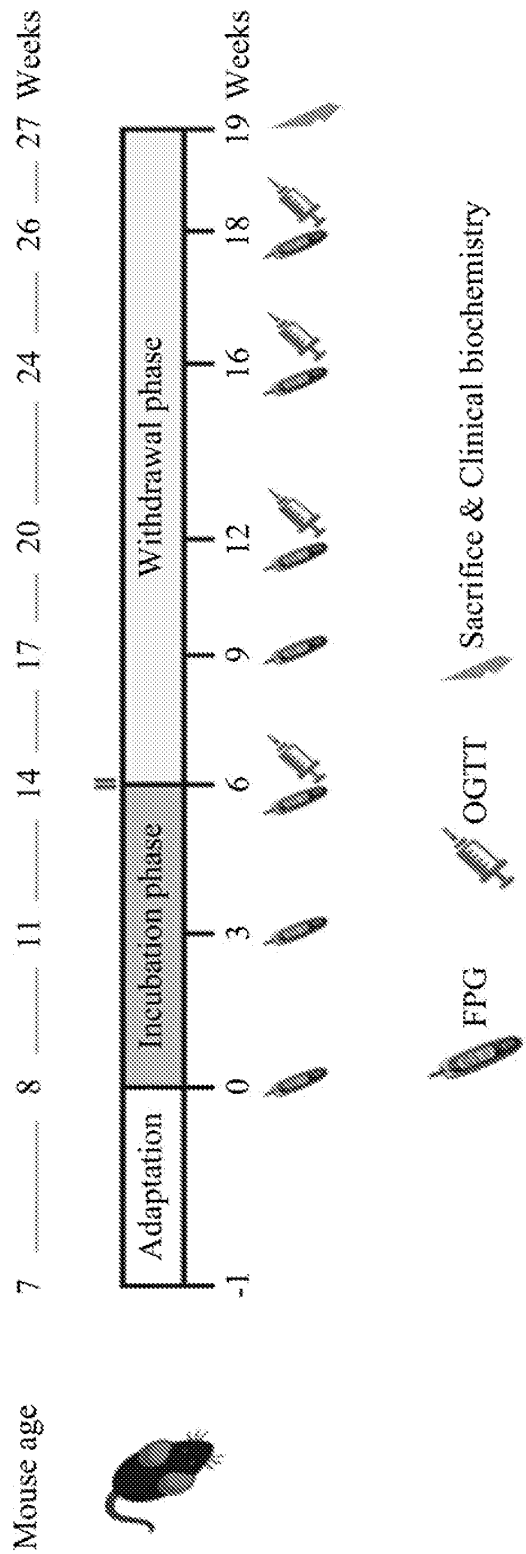

Mouse age
7 Weeks
8
11
14
17
20
24
26
27
Adaptation
Incubation phase
Withdrawal phase
-1
0
3
6
9
12
16
18
19 Weeks
FPG
OGTT
Sacrifice & Clinical biochemistry

FIG. 3

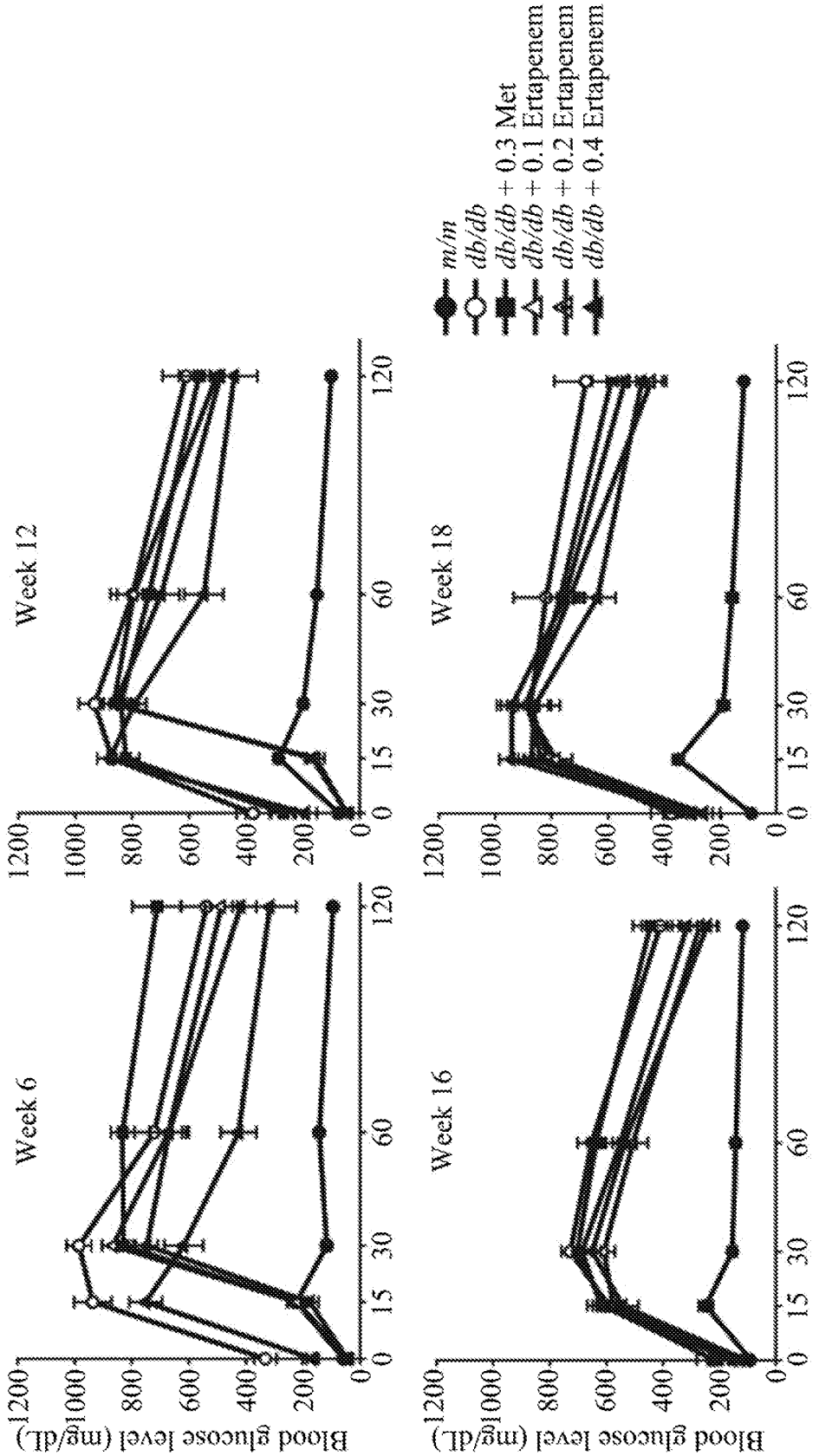

Week 6
Week 12
Week 16
Week 18
Blood glucose level (mg/dL)
0
200
400
600
800
1000
1200
0
15
30
60
120
m/m
db/db
db/db + 0.3 Met
db/db + 0.1 Ertapenem
db/db + 0.2 Ertapenem
db/db + 0.4 Ertapenem

FIG. 4

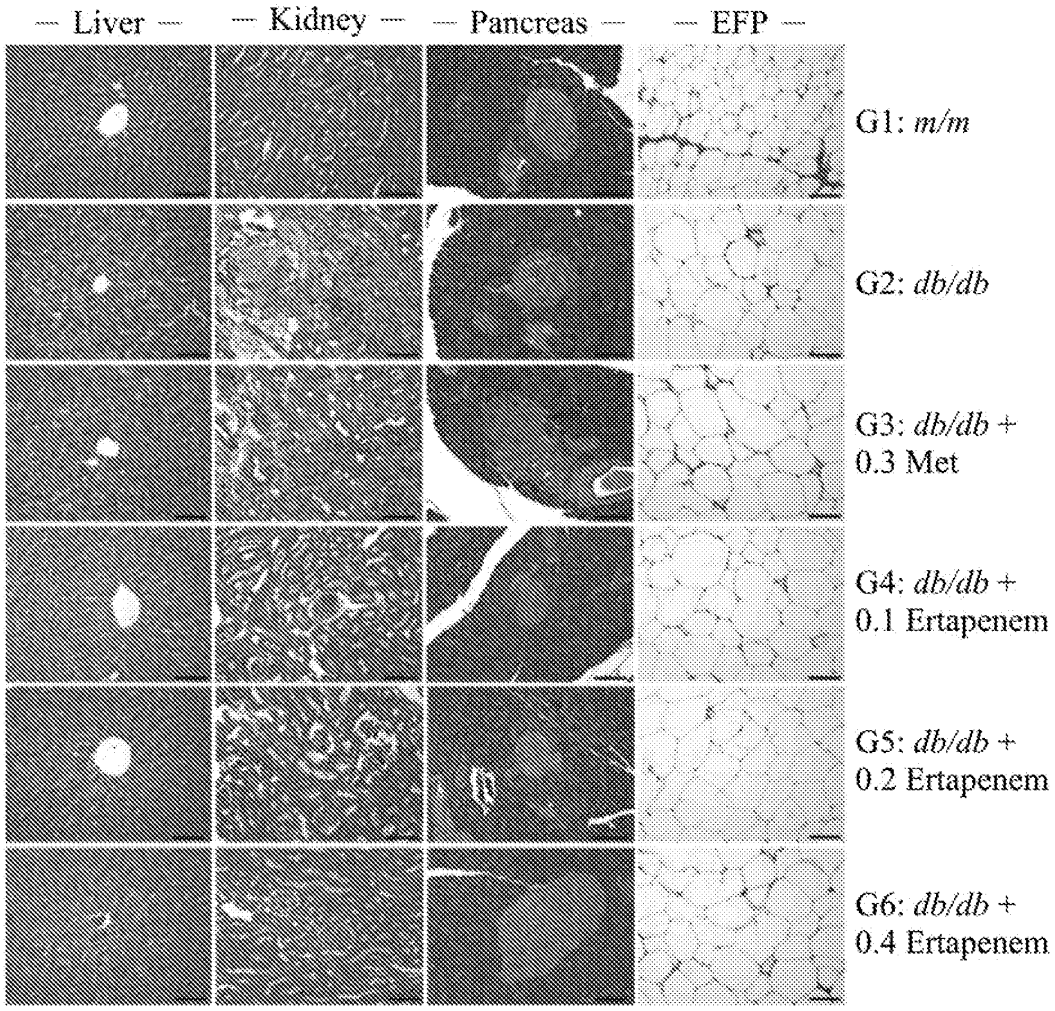

Liver
Kidney
Pancreas
EFP
G1: m/m
G2: db/db
G3: db/db + 0.3 Met
G4: db/db + 0.1 Ertapenem
G5: db/db + 0.2 Ertapenem
G6: db/db + 0.4 Ertapenem

FIG. 5

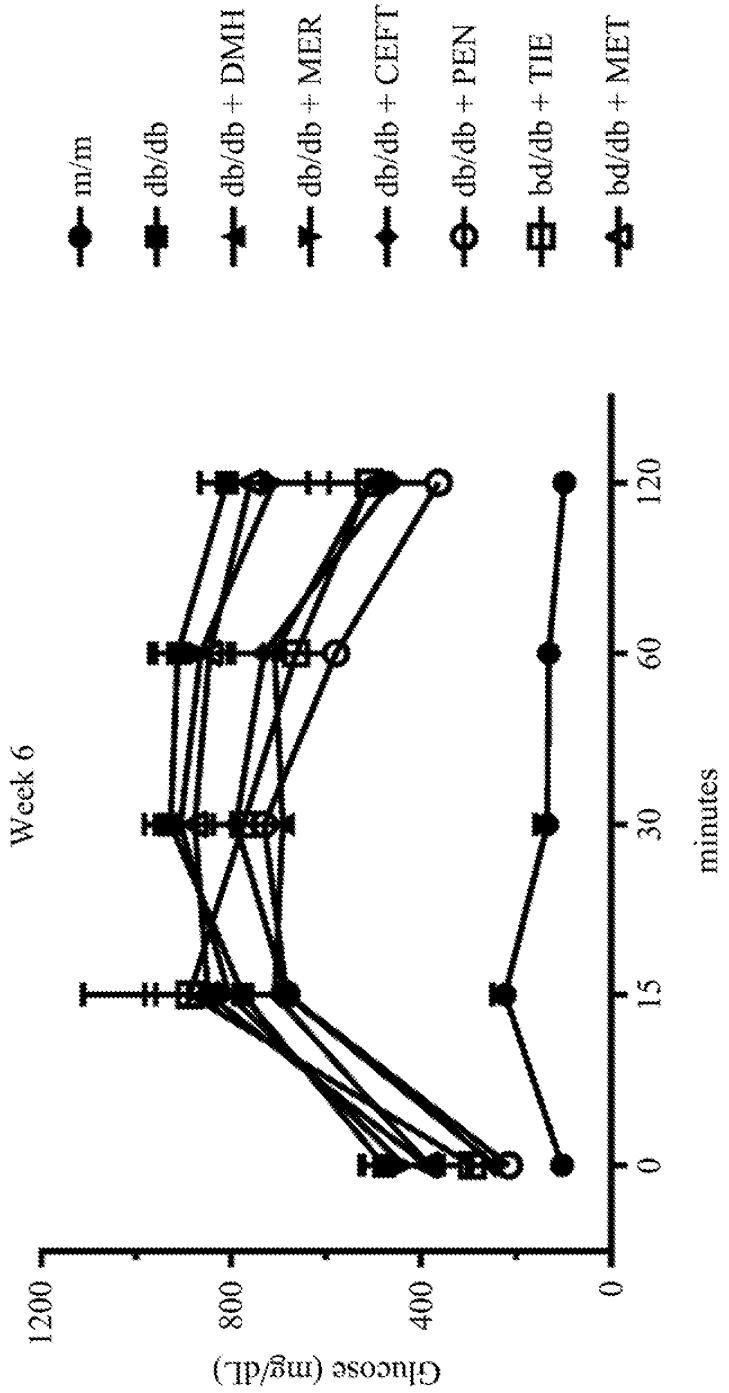

m/m
db/db
db/db + DMH
db/db + MER
db/db + CEFT
db/db + PEN
bd/db + TIE
bd/db + MET
Week 6
Glucose (mg/dL)
1200
800
400
0
0
15
30
60
120
minutes

FIG. 6A

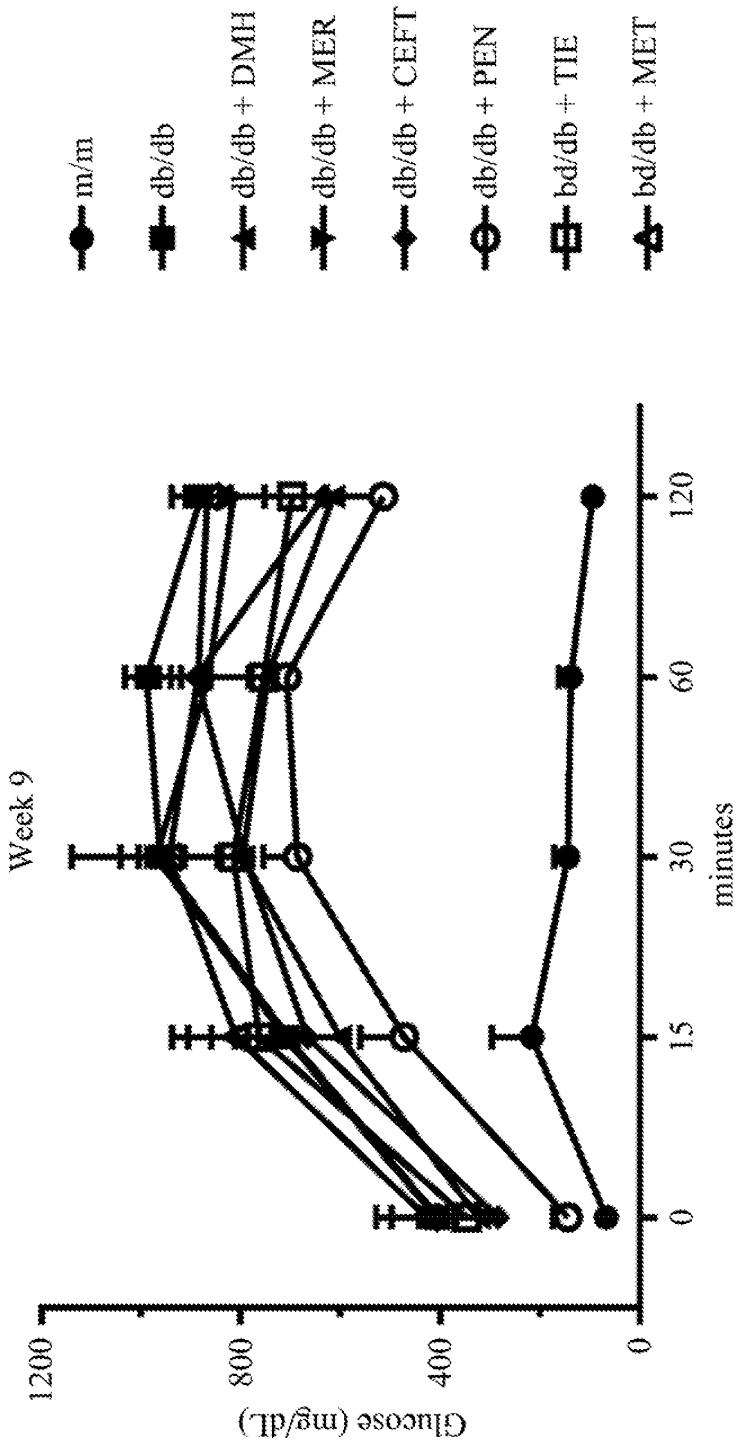

m/m
db/db
db/db + DMH
db/db + MER
db/db + CEFT
db/db + PEN
bd/db + TIE
bd/db + MET
Week 9
Glucose (mg/dL)
1200
800
400
0
0
15
30
60
120
minutes

FIG. 6B