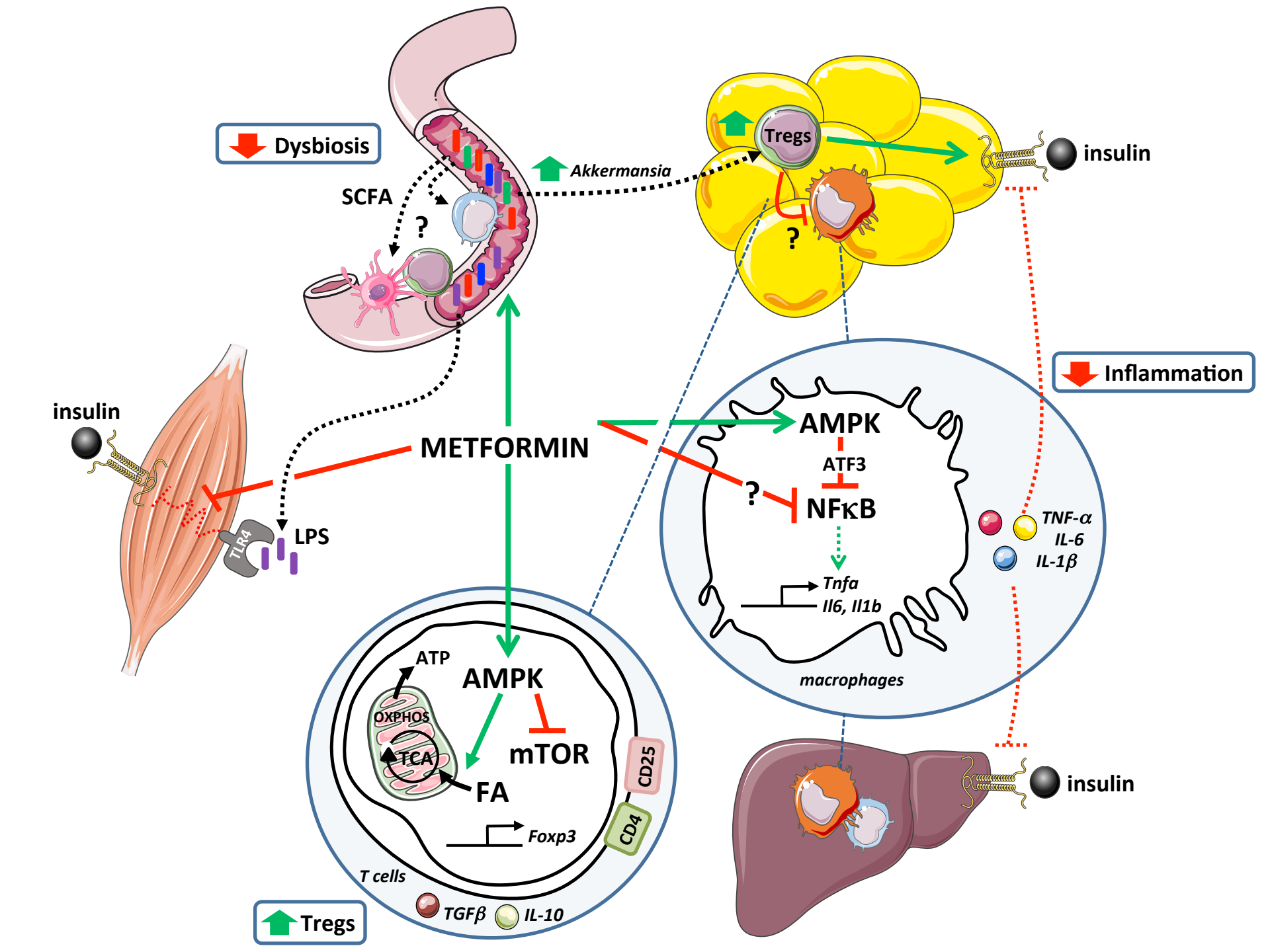
Dysbiosis
SCFA
?
Akkermansia
Tregs
?
insulin
Inflammation
insulin
METFORMIN
TLR4
LPS
AMPK
ATF3
?
NFκB
Tnfa
Il6, Il1b
macrophages
TNF-α
IL-6
IL-1β
ATP
AMPK
OXPHOS
TCA
mTOR
FA
CD25
CD4
Foxp3
T cells
TGFβ
IL-10
Tregs
insulin