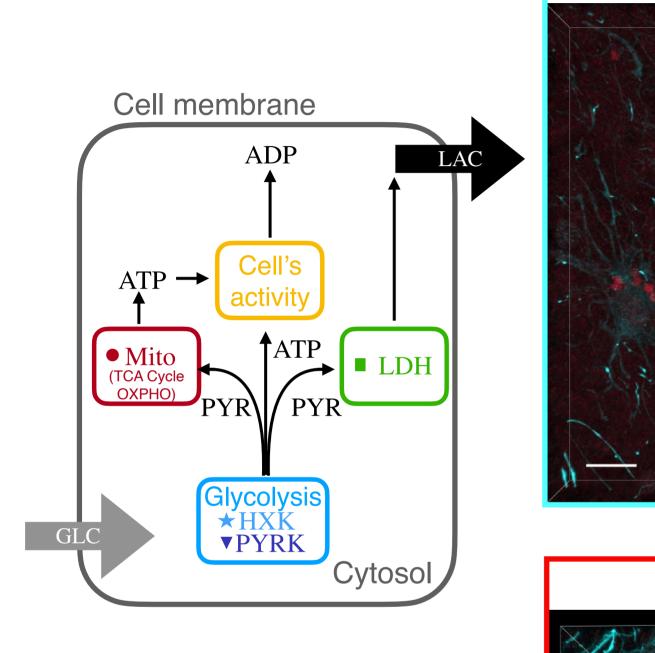
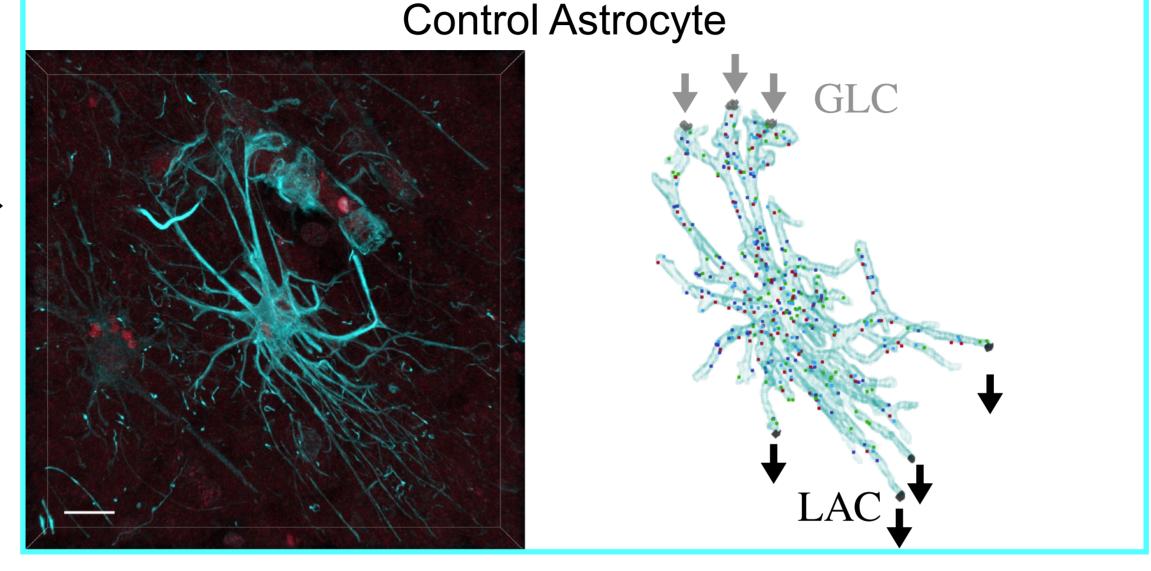
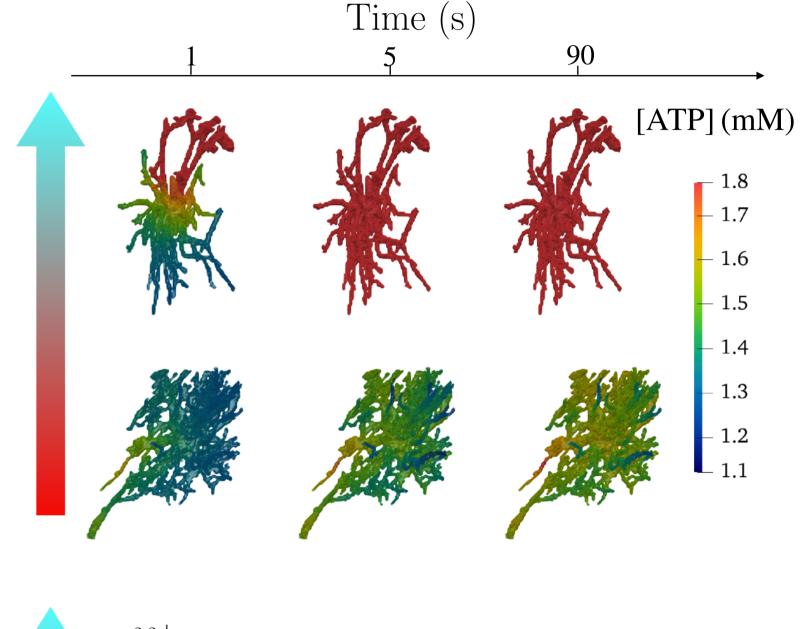
## Mechanistic multiscale modelling of energy metabolism in human astrocytes indicates morphological effects in Alzheimer's Disease.







HXK: GLC + 2 ATP  $\rightarrow$  2 ADP + 2 GLY PYRK: GLY + 2 ADP  $\rightarrow$  2 ATP + PYR

 $LDH : PYR \rightarrow LAC$ 

Mito: PYR +  $28 \text{ ADP} \rightarrow 28 \text{ ATP}$ 

act : ATP  $\rightarrow$  ADP

