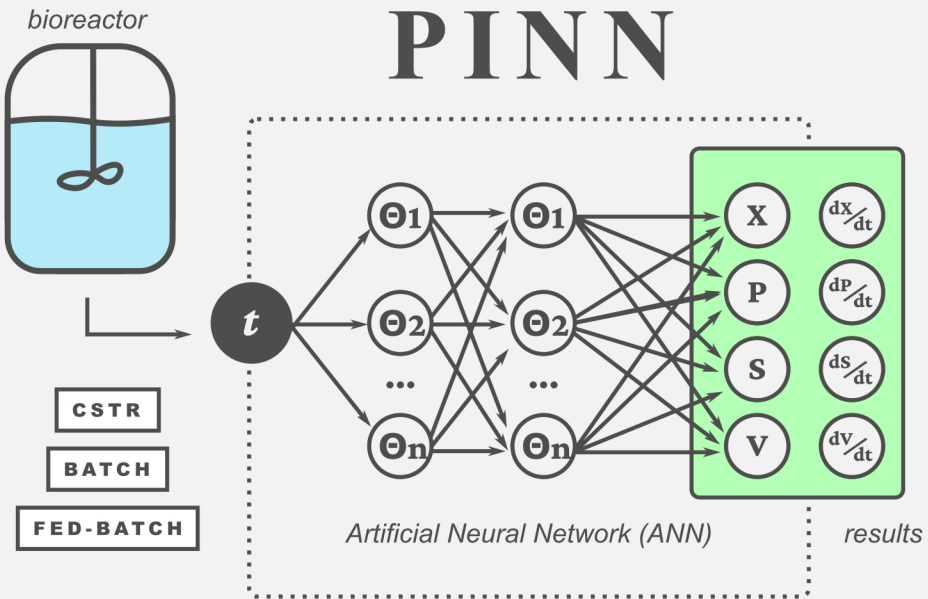


Biorreactor Simulation

lactic acid production by *L. casei*



Tests



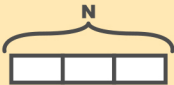
NONDIMENSIONALIZATION

time, volume, biomass, lactic acid, lactose



LOSS WEIGHTS

volume, biomass, lactic acid, lactose



NUMBER OF LAYERS



NUMBER OF NEURONS

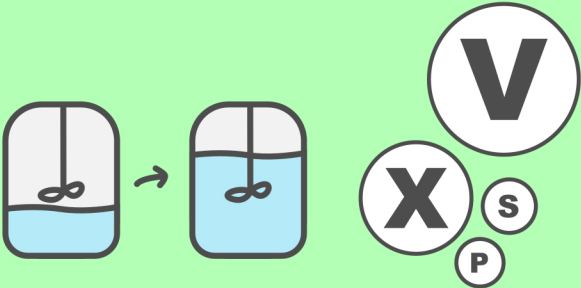
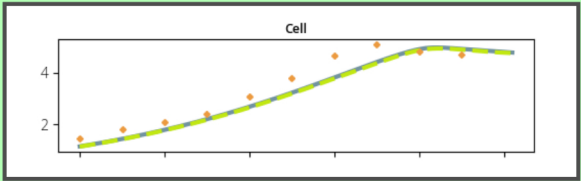


COMPARISON

Compare PINN results with numerical and experimental

Findings

Batch simulation show great results



Loss weights and nondimensionalization of **volume** and **biomass** concentration are the most relevant variables and show great influence in results