

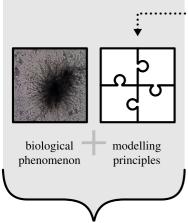
historical data of patient cases, treatments and final outcomes additional data derived from mechanistic hypothesis

machine learning (classification/regression

inductive process to extract unseen patterns existing in the data. Machine learning models filter out irrelevant or redundant information to discover relevant co-occurrences and/or dependencies



predictive model



**INPUT** 

modelling principles derived from the data

mechanistic model (simulation)

new hypothesis for a casual mechanism observed in an experimental scenario that is recreated through simulation (mechanistic modelling) out of a series of constructive principles



deductive model

OUTPUT