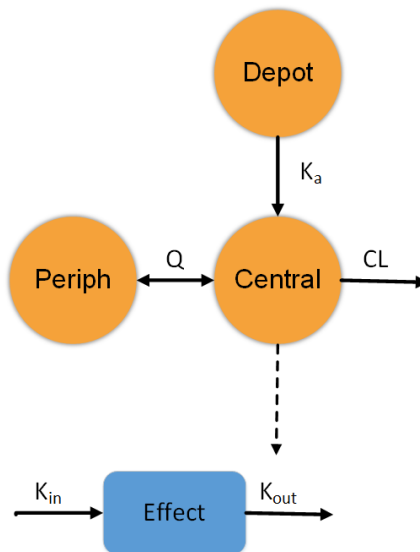


## Population Pharmacokinetics (PopPK/PD)



- The Population approach characterizes PK and PD relationship and source of variability between group of subjects.
- The PopPK analysis assess the impact of covariates (bodyweight, age, sex, ethnicity, organ impairment) on the drug characteristics.
- PopPK-based Simulations used to inform dose selection rationale and optimize trial design.
- Mechanism-based PopPK modeling can describe any complex biological mechanism (enzyme induction/inhibition, target mediated disposition, complex absorption).
- PopPK model can be extended to Systems Pharmacology models in various therapeutic area (neuroscience, oncology, inflammation, infectious disease).
- “Gold standard” for regulatory submission.