

# Quantitative Systems Pharmacology (QSP) Multiple Myeloma Model

Software capable of predicting efficacy for your novel therapeutics. Over 20 phase 2/3 clinical trials are used in training this model, spanning over 25 drug regimens and 14 distinct therapeutic agents, including steroids, proteasome inhibitors, immunomodulatory agents, T cell engagers, CAR-T therapies, monoclonal antibodies and combinations thereof.



## Key Applications

- Predict efficacy for late-stage therapeutics under development, including T cell engagers and CAR-T therapy
- Compare different therapeutics with the same or similar targets or against existing treatments
- Determine patient subgroups of interest based on baseline patient features or response to prior lines of therapy
- Identify optimal dosing strategies for specific scenarios of interest

## Key Features

- Convenient, efficient, and thorough generation and calibration of virtual populations
- Includes both qualitative and quantitative data during model training
- Represents clinical trials with specific entrance criteria
- Plot and analyze simulation results in the same platform
- Automatically visualize connections between model components
- Export data to other programs for ad hoc analyses

## Sound Science



### Generates

virtual populations that include inter-patient variability in pathophysiology as well as clinical endpoints



### Clinical Data

data constrains contributions of distinct pathways to tumor growth and suppression for numerous therapeutic classes (eg, immunomodulatory drugs, proteasome inhibitors, etc.)



### Includes

detailed interactions between the tumor and immune response



### Simulates

cellular and biochemical processes across multiple scales, from cytokine concentrations to clinical response endpoints



### Considers

an initial population of relapsed or refractory patients, with a focus on a subgroup of patients refractory to lenalidomide



### Core

oncological processes are explicitly represented, including changes in antigen expression relevant to therapy, such as BCMA

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