

# Quantitative Systems Pharmacology (QSP) Non-Small Cell Lung Cancer (NSCLC) Model

Software capable of predicting efficacy for your novel therapeutics. This model is trained using data from 30 clinical trials, spanning over 35 drug regimens, and 15 distinct therapeutic targets including standard chemotherapies and emerging immuno-modulating therapies.

## Key Applications

- Predict efficacy for molecules and therapeutics under development
- Optimize clinical trial protocols, including treatment sequences, combinations, and dose
- Compare different therapeutics with the same or similar targets or against existing treatments
- Determine patient subgroups of interest based on baseline patient features

## 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



### Incorporates

cellular and biochemical processes across multiple scales (eg, specific cells to clinical endpoints)



### Generates

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



### Core

oncological processes are explicitly represented, including cancer cell dynamics and pertinent cell interactions



### Includes

detailed interactions between the tumor and immune responses



### Clinical data

constrains the relative contributions of distinct pathways to tumor growth and suppression

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