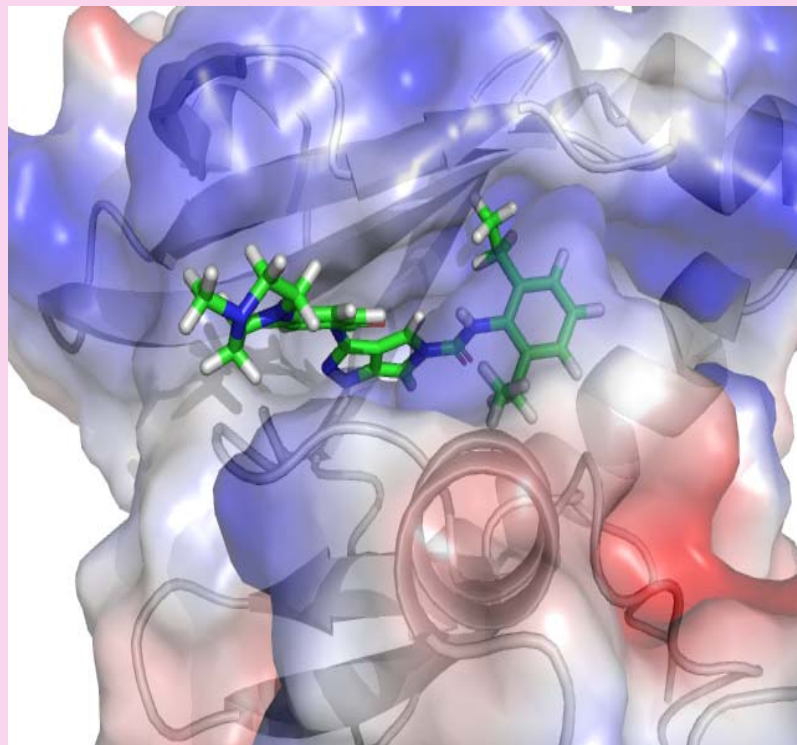
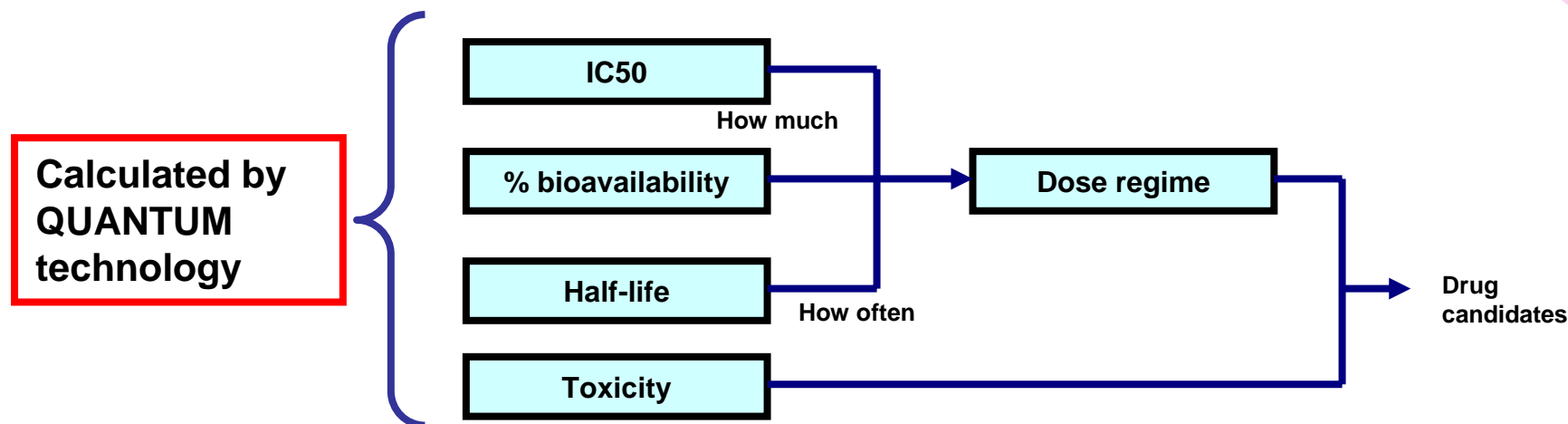


Partnerships and Collaborations with Quantum Pharmaceuticals



Quantum Tools as Automated Decision-Making Engine



[QUANTUM computational technology](#) is unique proprietary developed in Quantum Pharmaceuticals. It allows our scientists to determine compounds with high affinity to the protein-target as well as to suggest a dose regime and on the base of calculated values of half-life and bioavailability, and predict toxic endpoints & side effects of the drug candidate.

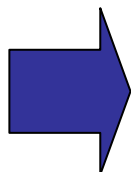
This technology is an automated decision-making engine in drug discovery, which creates novel drugs and contributes to a reduction in late stage compound attrition.

Drug Discovery Workflow in Quantum Pharmaceuticals

STEP 1: Hit Identification

10 lead series
IC50<1um

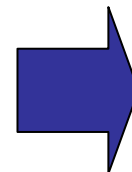
6 weeks



STEP 2: *In silico* Optimization

3 lead series
IC50<0.01 um

4 weeks



STEP 3: Lead Identification*)

1-2 lead series
IC50<0.01 um
Improved ADMET

18 weeks

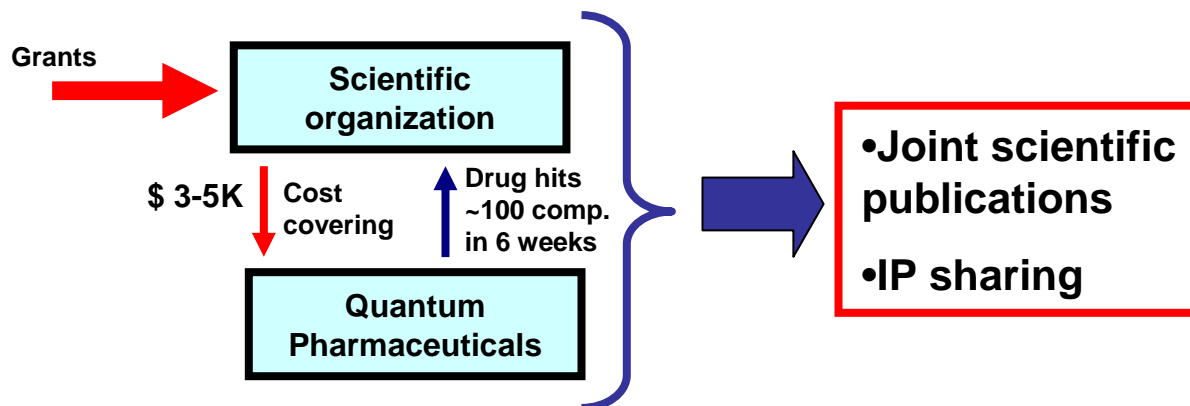
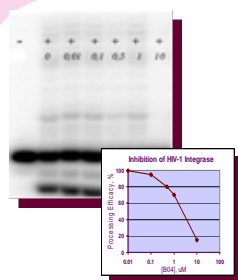
- Building and validation of the protein-target model
- Chemical library preparation (~1M comp.)
- Screening *in-silico* (~1M)
- In vitro testing (~100 best comp.)

- Improve potency (IC50) and selectivity
- Improve ADME/TOX, dose regime (initial formulation)
- Patentability check

- Chemical synthesis
- In vitro testing
- ADME/TOX in vitro and in vivo
- IP acquire

*) provided by our partner companies

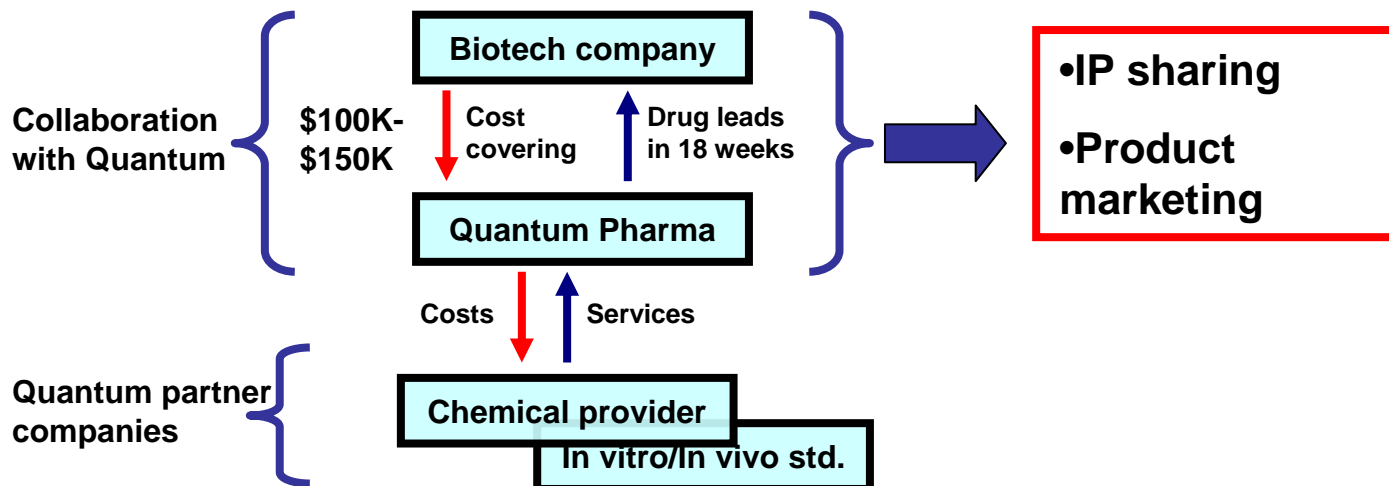
Collaboration for scientific organizations



Quantum Pharmaceuticals offers scientific organizations unique, rapid and cost-effective solutions in drug discovery.

Quantum Pharmaceuticals enters in collaborations with scientific organizations to discover drug hits, which are inhibitors of the designated protein-targets, as well as discover drug lead series. Our company performs research activities according to STEP1 and STEP 2 of the drug discovery workflow, see the previous page.

Collaboration for biotech companies



Quantum Pharmaceuticals offers biotech companies unique, rapid and cost-effective solutions in drug discovery. Our company creates drug lead series with high potency in preclinical stages, see the workflow mentioned on page 3.

Because of our innovative computational technology the cost and time of drug development in Quantum Pharmaceuticals is significantly reduced: 5X cost and 2X time.

Our Products & Services

Quantum Pharmaceuticals technologies:

- Small molecules drug discovery platform
- Small molecules ADME/TOX prediction
- Antibody de novo design: optimization and humanization.
- Protein-Target building and modeling
- Mechanism of action. Selectivity. Prediction and modeling

[Quantum Science Overview](#)

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