

A Return to Rational CNS Drug Development: De-Risking Phase 3 Investments Through Rigorous Early Phase Drug Evaluations

Part 2: Session Chairs

Gary Sachs/Atul R. Mahableshwarkar

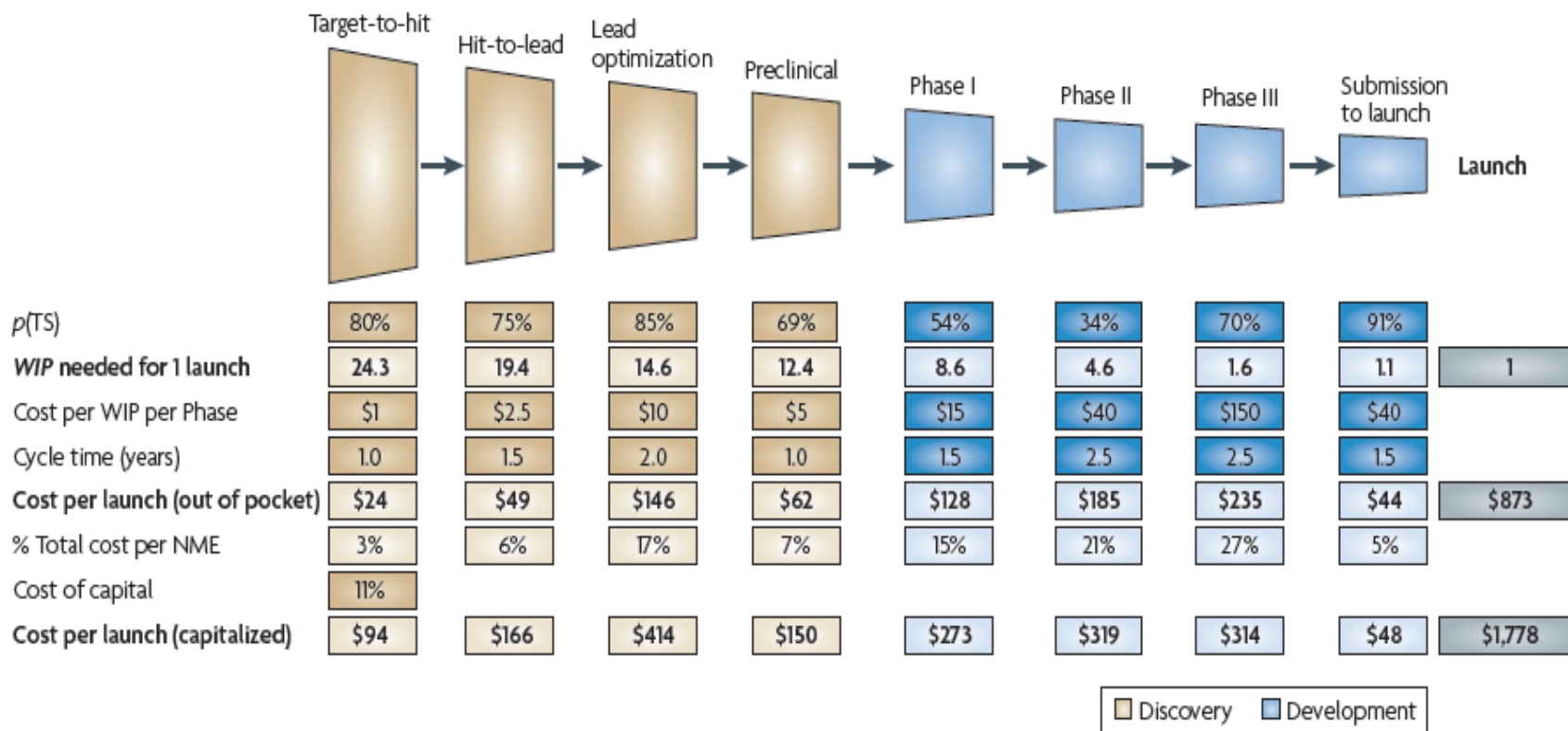
Designing the Right Series of Experiments

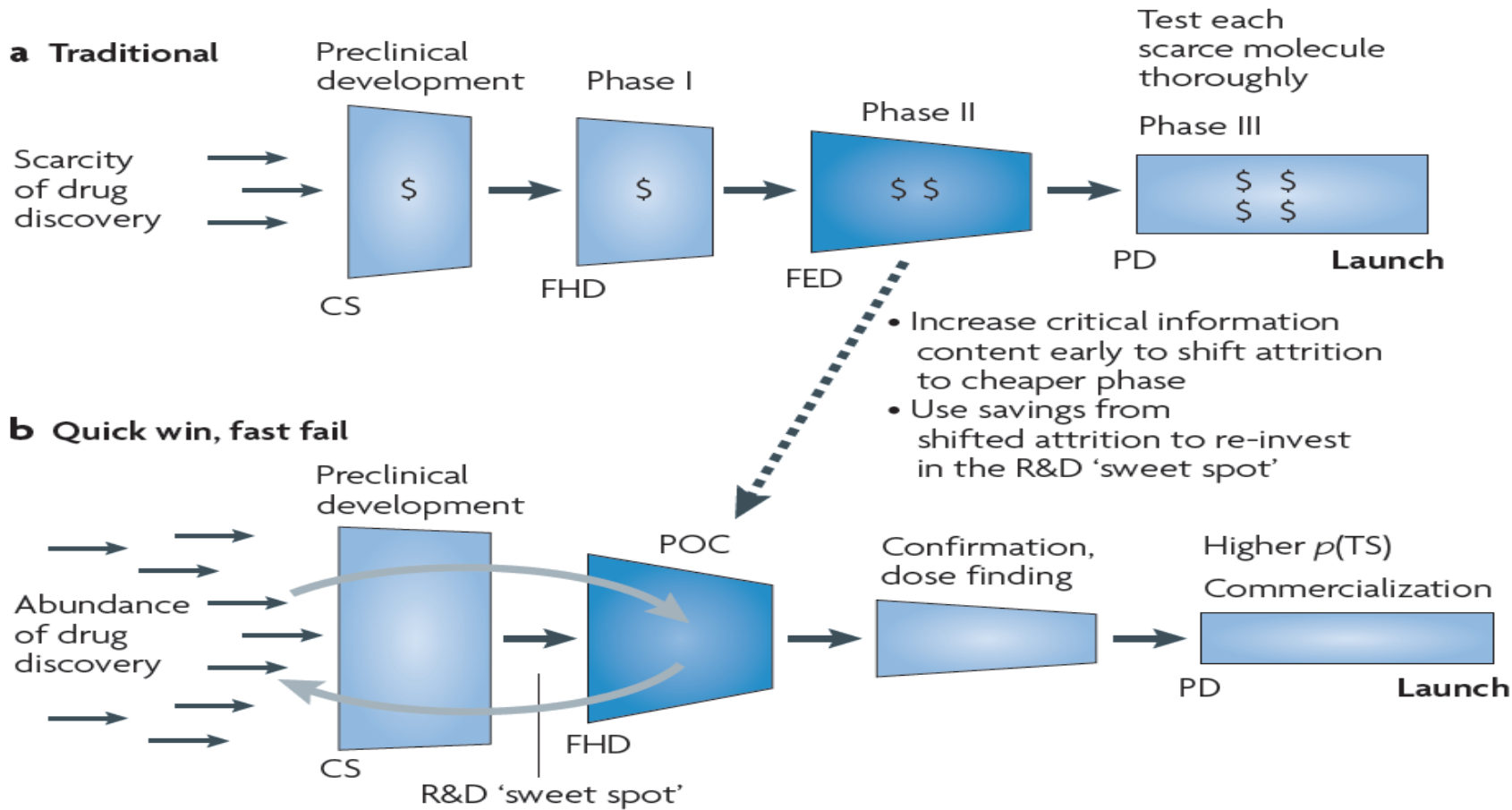
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Standard R&D Model

Costs to Successfully Discover a Single New Molecular Entity





Trial → Learning → Trial → Learning → Trial → Learning



Questions to be Answered

- Translation of pre-clinical safety and tolerability to humans
- Translation of PK and tolerability from healthy volunteers to patients
- Selecting dose for first in class compounds
- Establishing dose range
- Ensuring the right patient population

- Resource constraints
- New hypotheses to understand diseases
- New regulatory guidances
- Inconsistent data

New Questions

- How to combine steps and answer more questions from less/single trial
 - Ensure an enriched population
 - Appropriately sensitive instruments
 - Running a combo epidemiology/efficacy trial
- How to run trial to support new disease hypothesis and assess drug response
- How to incorporate new regulatory guidances in trial that are also sensitive to payer needs