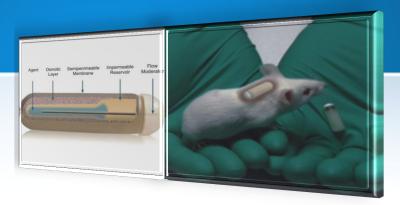
SMART Development of Pre-Clinical Candidates





Problem Statements



Amorphous solid

dispersions?

Crystal Pharmatech

Surfactants?



Poor understanding of interplay of solid state and biopharmaceutical properties:

•When to do a salt screen?

What vehicles to use for PK development?



When can formulations help and when they cannot?

Solubility-limited

compour

Food effect

Unable to achieve MTD

Dissolution-limited compounds

Unneo

Unnecessary exotic formulations!

Nanomilling?

Too many PK studies!

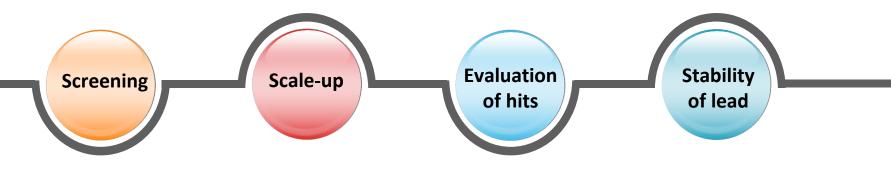
Low and va

Low and variable plasma exposures

SMART Solution



- Sound scientific approach to PK formulation development
- Utilize solid-state and biopharmaceutical properties in design
- Minimize unnecessary PK studies
- Design not screen PK formulations
- Get to decision points faster know when to cycle back and re-evaluate compound
- Understand when non-conventional formulation is necessary
- Quickly rule-in or rule-out salts or co-crystals
- Understand impact of solid-state every step of the way
- Clear visibility to FIH studies



Differentiating Features





- Proprietary decision trees developed by our SAB and consultants (over 60 years large pharma experience in PK formulations)
- Armed with latest technology in solubility enhancing vehicles and technologies
- Minimal "random walk" of toxicology formulation development.
 No unnecessary PK studies.
- Offerings tailored to specific project and budget
- Can seamlessly work with our partners to perform animal studies
- Opportunity to bring in SAB into project meetings true one-stopshop for PK formulation development



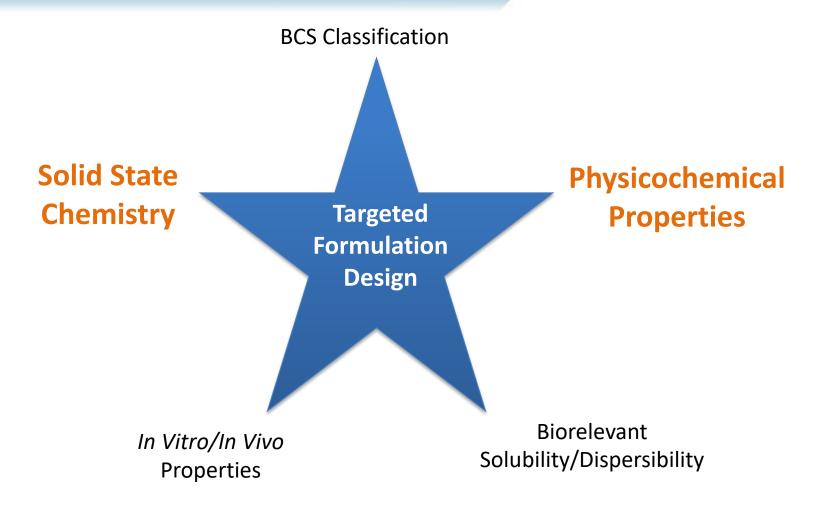
Assess all key parameters in a continuous process Minimize "kill" number due to formulatability Link discovery, early development and process

Development Candidate

Why Solid Forms for Drug?



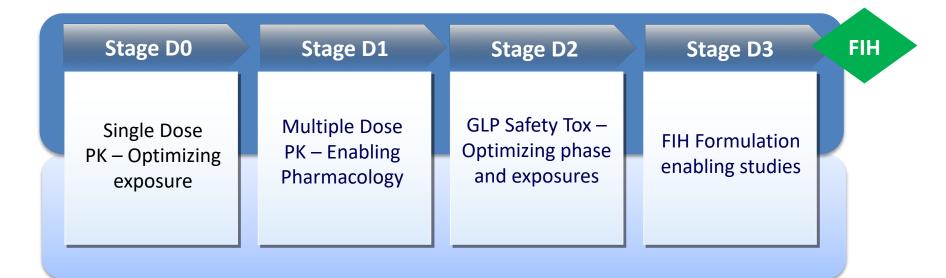


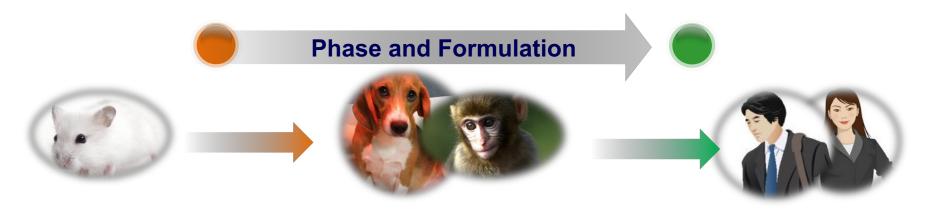


Design not screen formulations using fundamental solid state and biopharmaceutical properties of your drug compound







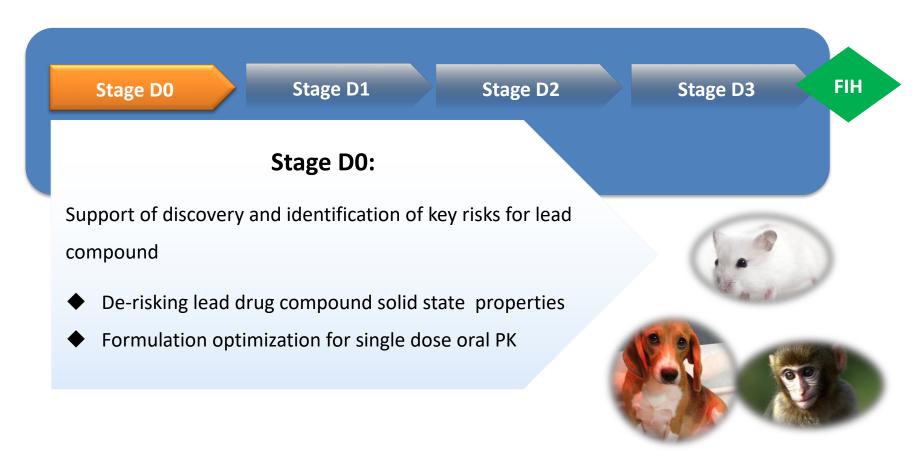






Optimizing Exposure with Single Dose PK Studies

Finding the right phase and formulation to enhance exposures in a single dose PK experiment







Enabling Pharmacology and Tox Studies

Finding the right phase and formulation to enhance exposures for pharmacology and toxicity studies

Stage D0 Stage D1 Stage D2 Stage D3	FIH
Stage D1	
Dose-limiting toxicity, dose-ranging studies. Identification	
of key risks for lead compound	
 Identification of phase for DLT 	
Formulation suitable for multi-dose PK and DLT	
	-





Enabling GLP SafetyTox Studies

Finding the right phase and formulation for GLP Safety Tox to support FIH

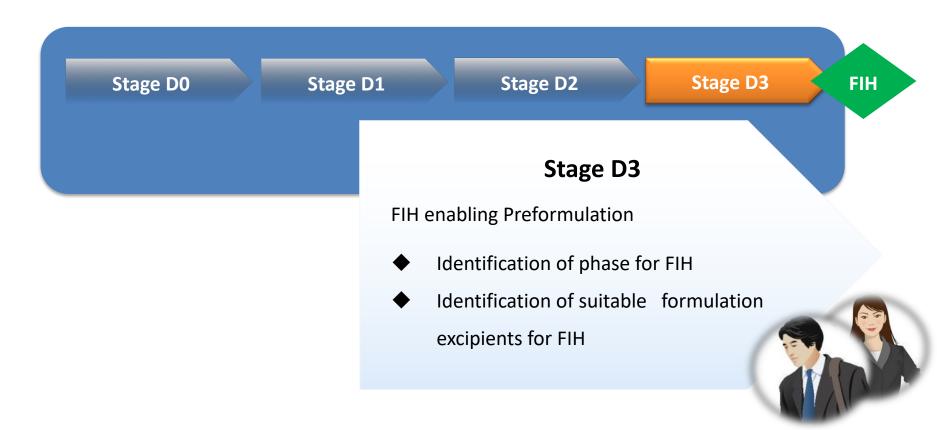






Enabling GLP SafetyTox Studies

Finding the right phase and formulation for GLP Safety Tox to support FIH

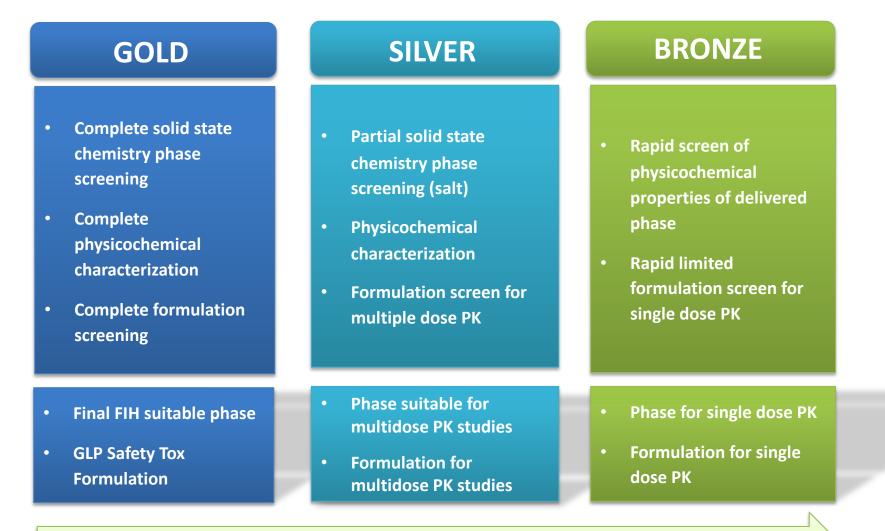


Targeted Offerings



Your Solid State Research Partner

Tailored to Your Specific Needs



Flexible, adaptable, rapid, access to our Scientific expertise

Collaboration and Partnership





