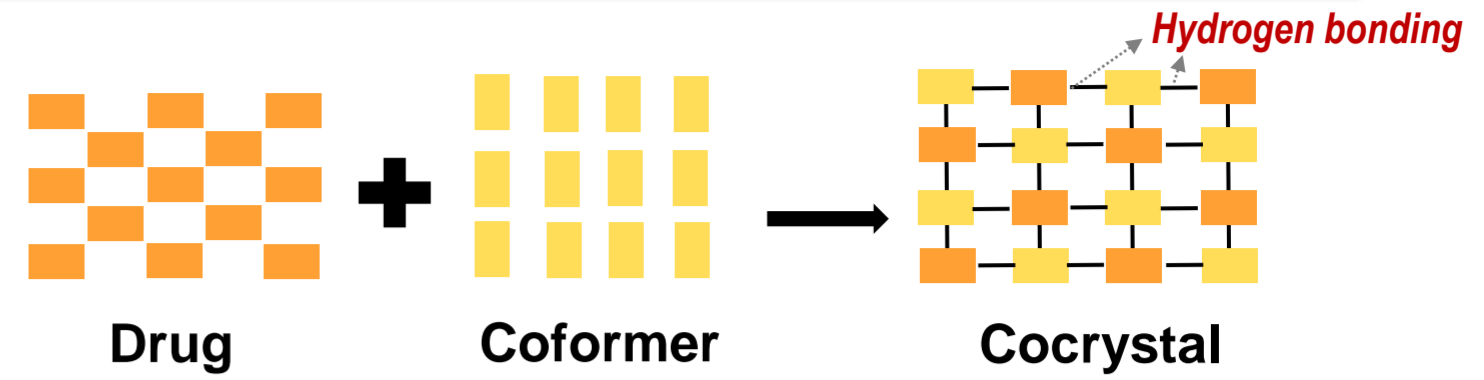


Accelerating New Drug Development: A Thermal Activation Technology Platform for Discovering Hidden Cococrystals

Cococrystal Engineering for New Drug Development

Unmet Needs in Cococrystal Engineering

- Limited crystal forms available for problematic drugs
- Ineffective cococrystal screening due to false-negative results in computational prediction and experimental approaches
- Limited dosage forms of cococrystal products available on the market (only oral and intravenous routes)



Improved Pharmaceutical Properties

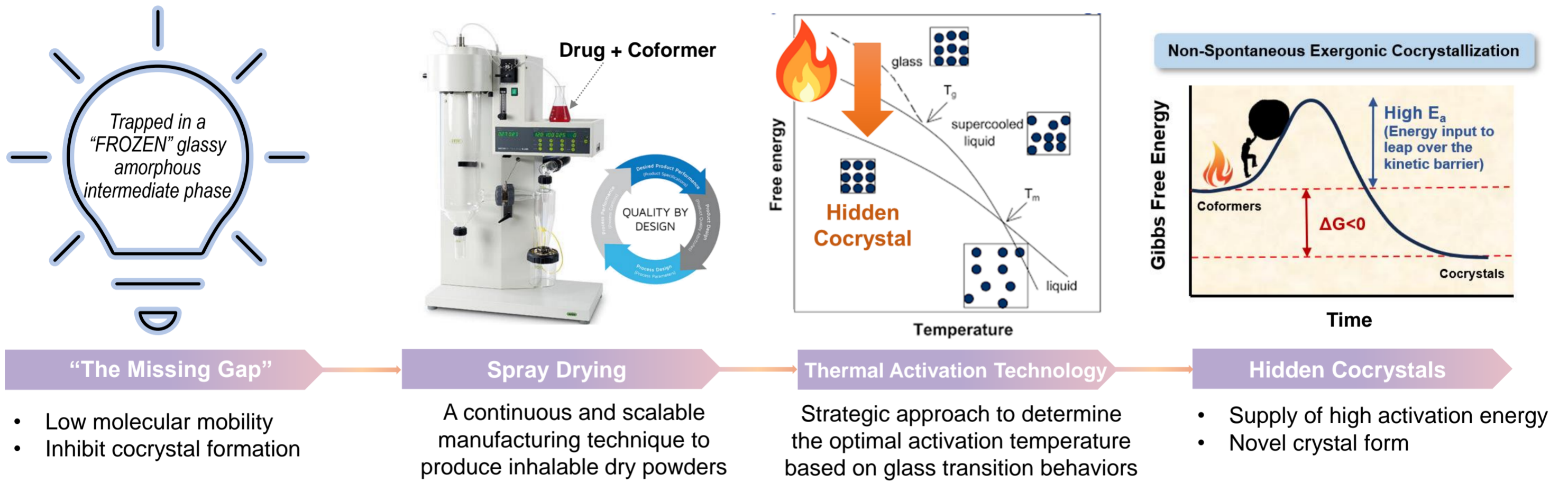
- Solubility
- Hygroscopicity
- Tabletability
- Dissolution rate
- Photostability
- Taste

Personalized Medicines

- Availability of large number of coformers

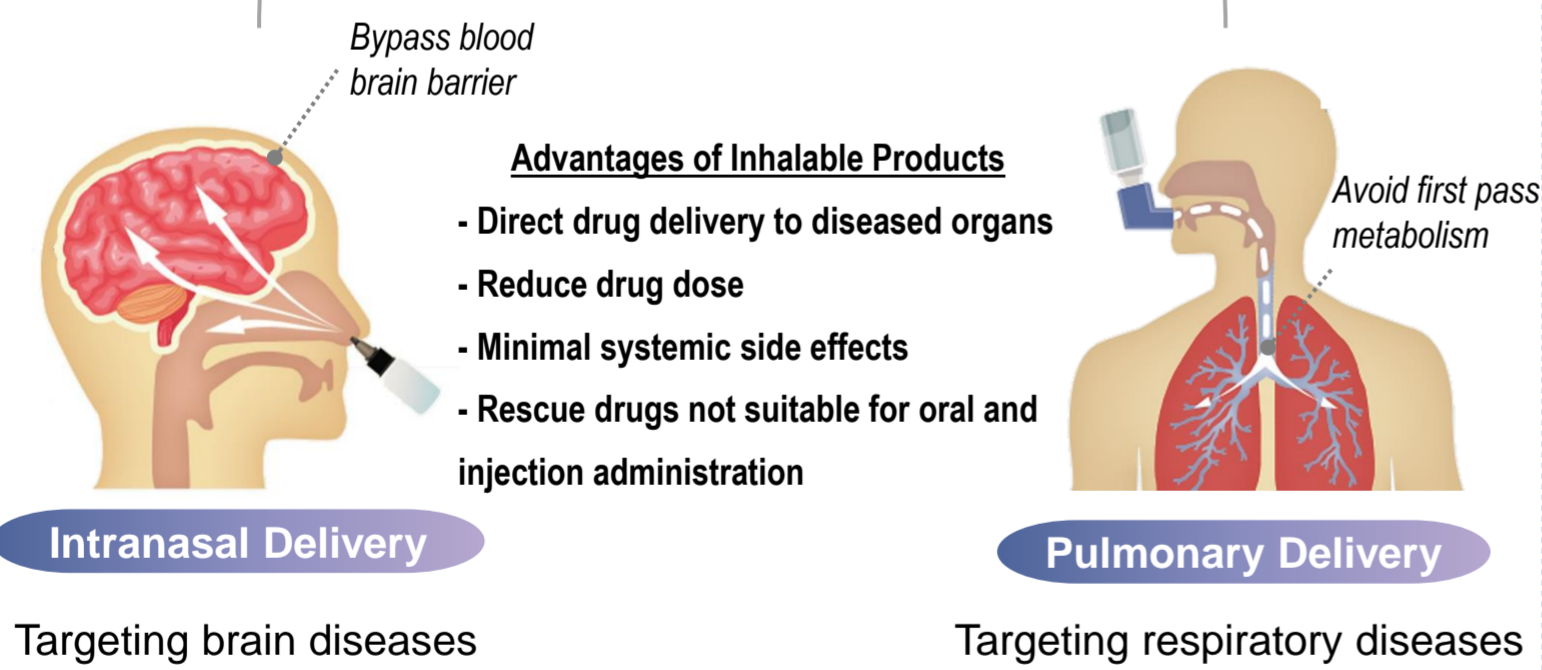
Intellectual Properties

Rationale of Our Invention in Discovering Hidden Cococrystals



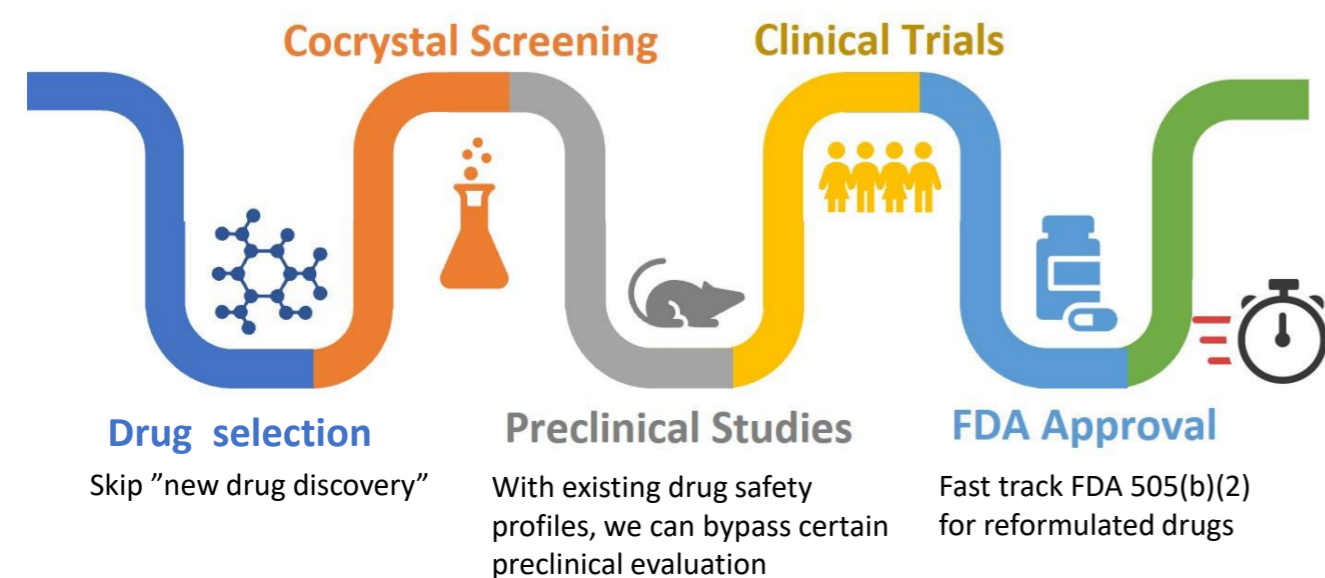
Innovation Deliverables

Pharmaceutical Applications



Commercial Impacts

↓ **3-5 years** Shorten Average Time to Market
 ↓ **>400 MM USD** Reduce Average Cost of Development

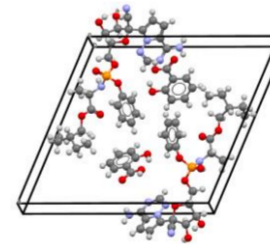


Examples

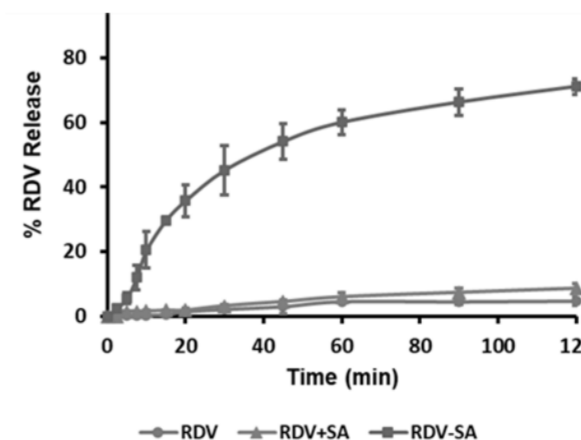
Discovered By the Thermal Activation Technology Platform

Patented# and Published*

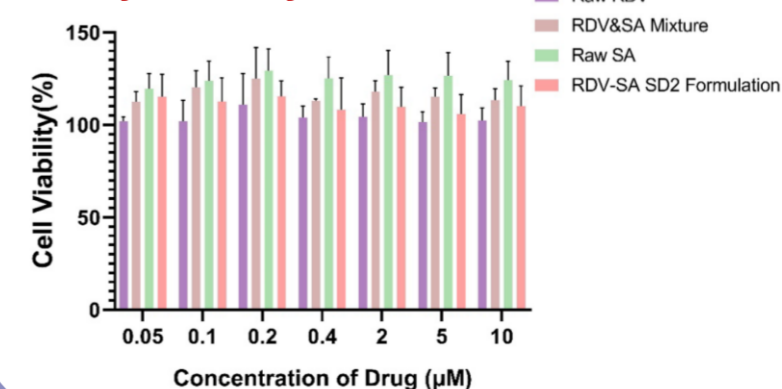
1st Remdesivir Cococrystal



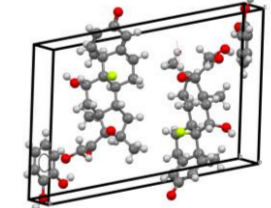
Superior dissolution rate



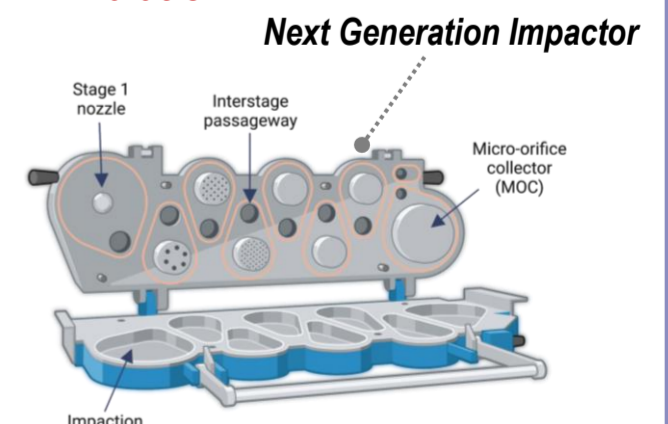
Safe inhalable powders without cytotoxicity



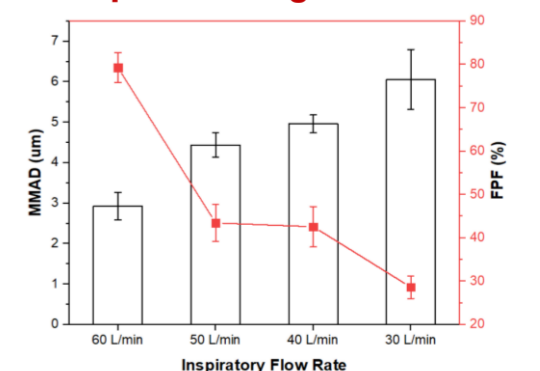
1st Dexamethasone Cococrystal



Optimal aerodynamic size for inhalation



Tailored for patients with impaired lung function



Unlimited Opportunity Overcome Patent Cliff