

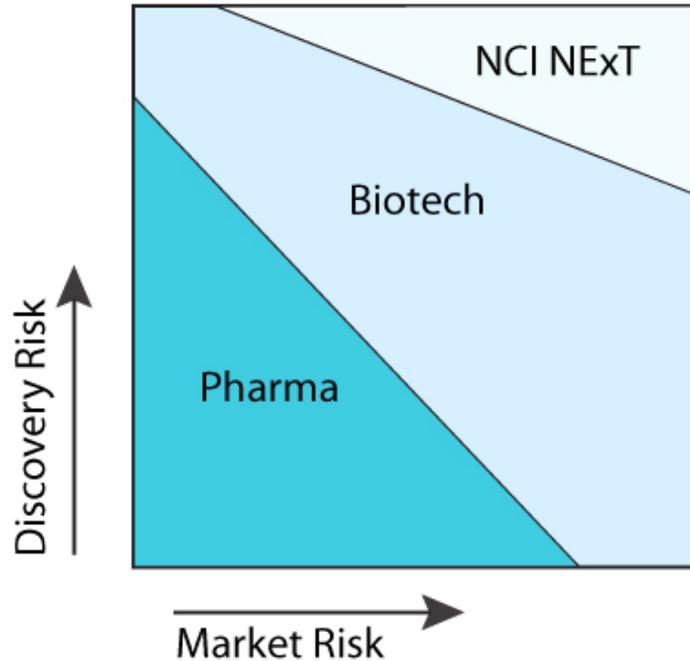
# NCI Experimental Therapeutics Program Chemical Biology Consortium

*James H. Doroshow, M.D.  
Director, Division of Cancer Treatment and Diagnosis  
National Cancer Institute, NIH*



**Frederick National Laboratory  
Advisory Committee  
October 30, 2017**

## NCI's Experimental Therapeutics Program



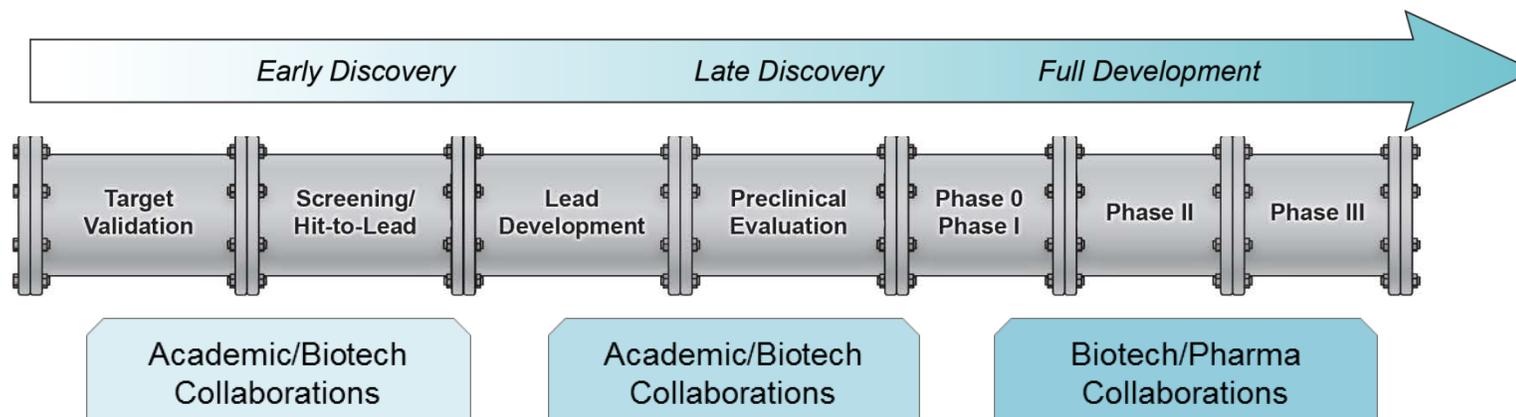
Focus on indications NOT adequately addressed by the pharmaceutical sector  
and  
recalcitrant, rare and neglected tumors

NExT is less risk-averse than Pharma

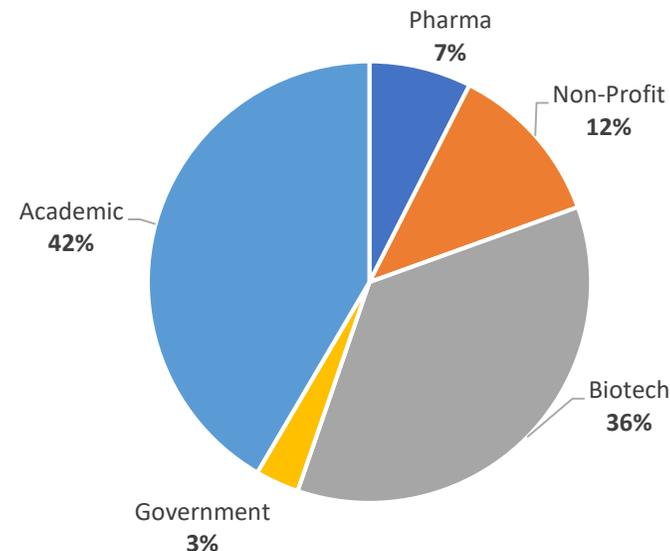
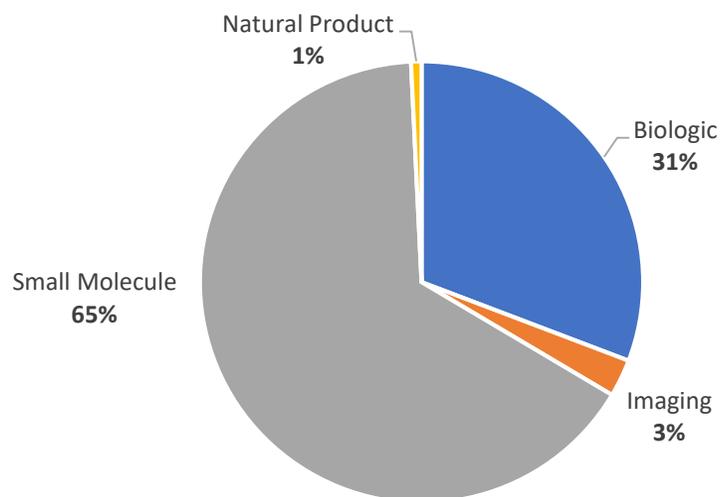
NExT is *not a grant mechanism*; applications with exceptional science are not accepted without justification of a clinical application or potential benefit to patients.

NCI partners with applicants to facilitate milestone-driven progression of projects focused on discovery and development of novel therapeutics

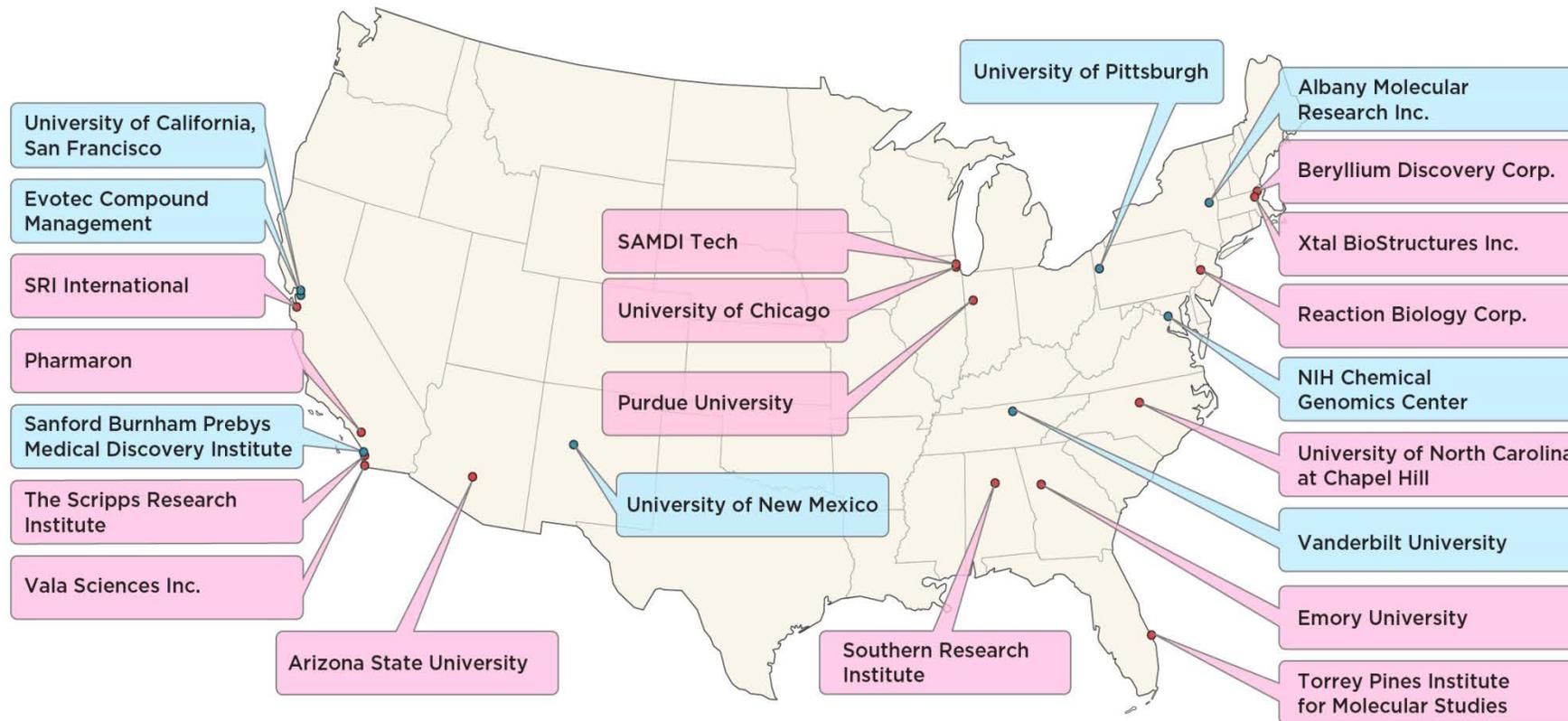
# NCI Experimental Therapeutics (NExT) Pipeline



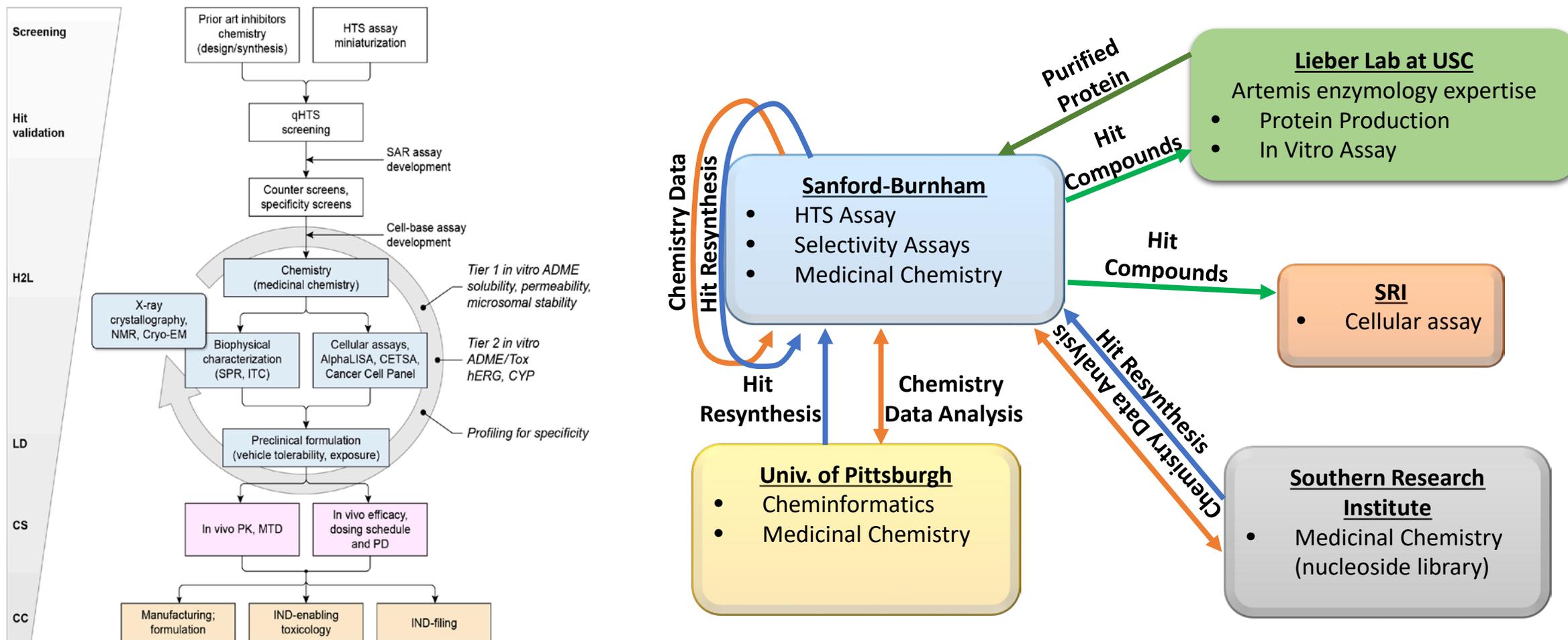
*Projects enter the pipeline on a competitive basis at any stage of the pipeline  
Since inception in 2009 NExT has received over 650 applications*



# Spring 2016: CBC Network Expanded to 23 Centers

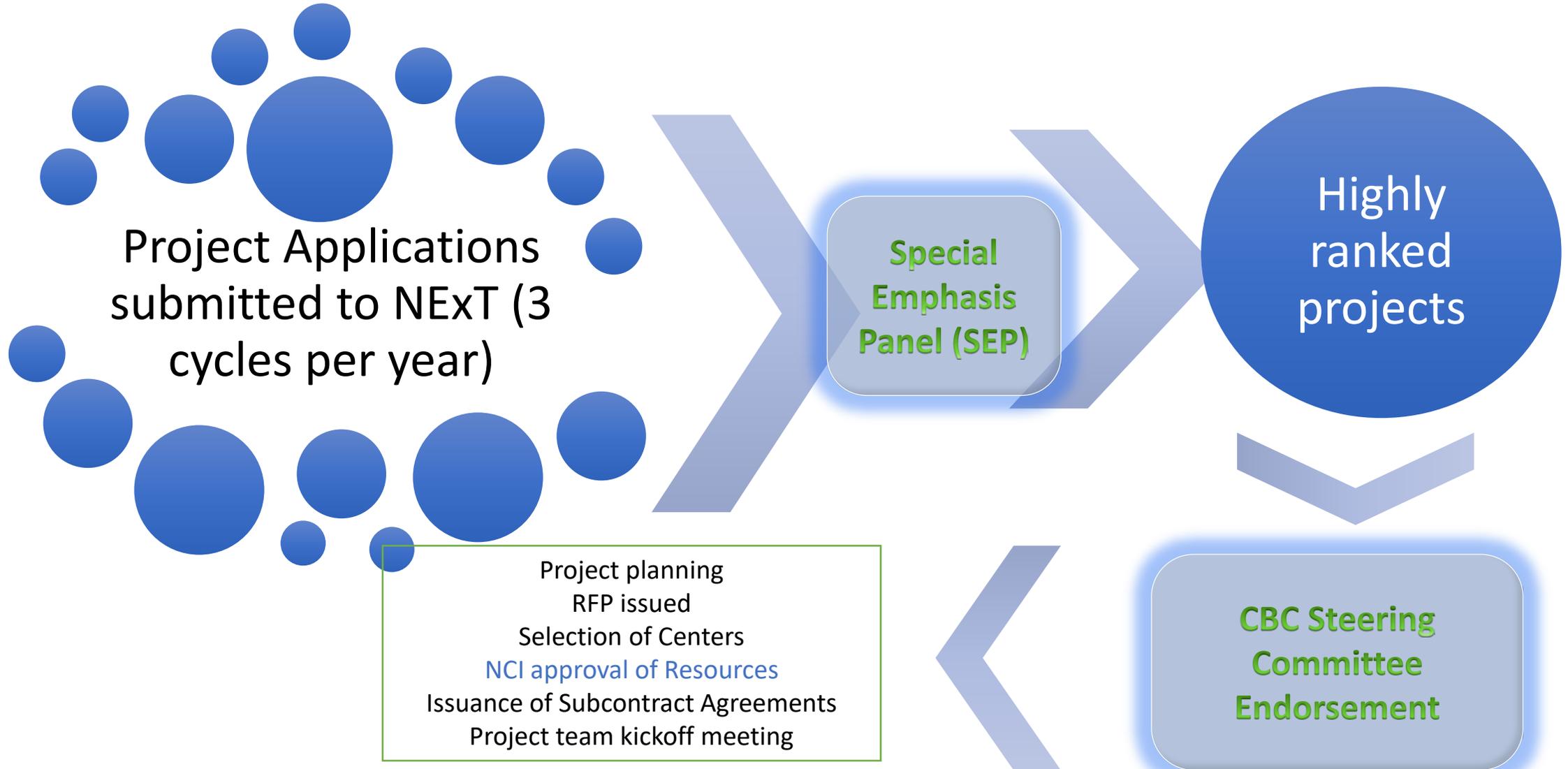


# Team Science Approach to Fight Cancer



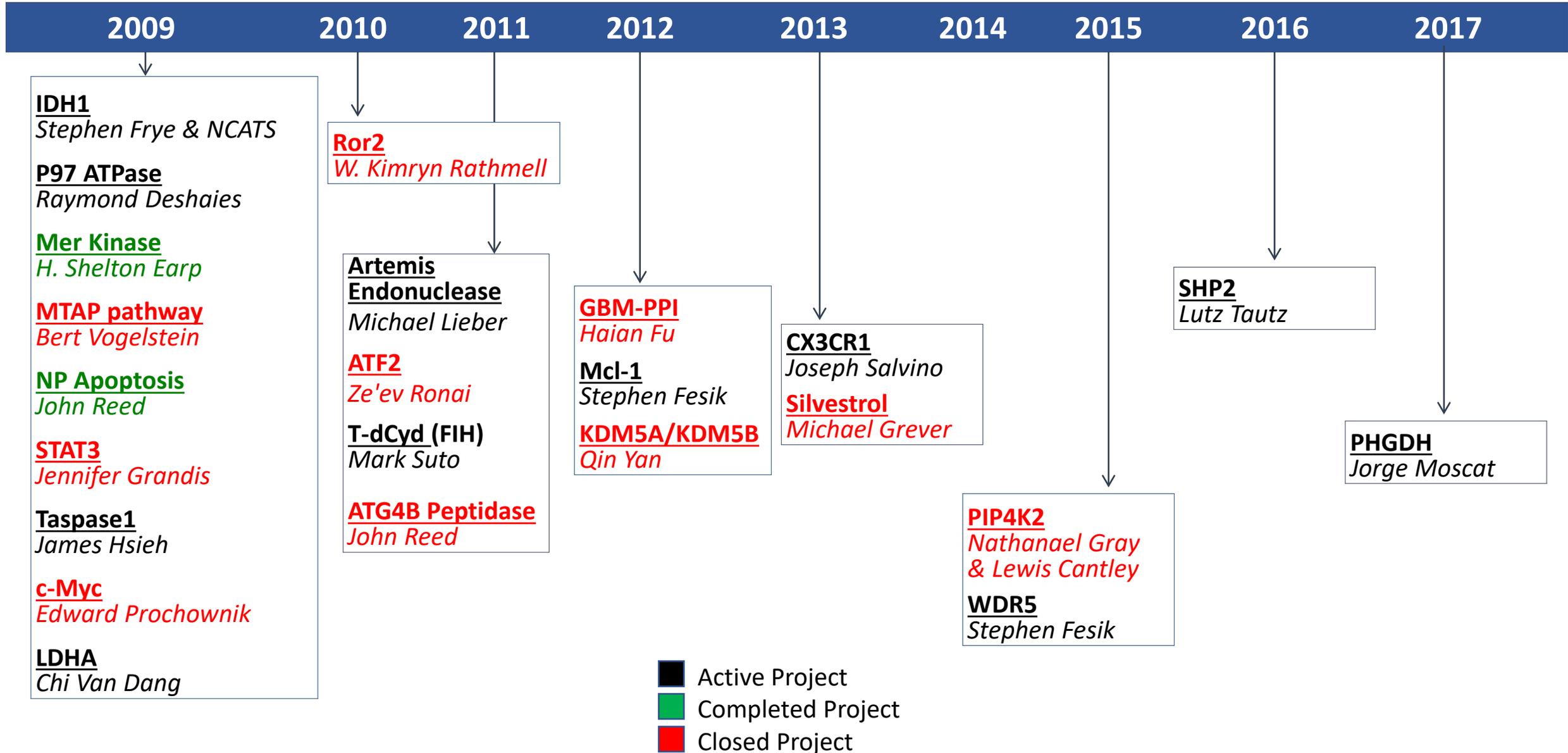
*Breadth and Depth of Scientific Experience in Small Molecule Drug Discovery (CBC Centers) and Biology of Target (PI) is Highly valuable Asset in Project Progression to FIH Studies*

# *Application Review to Project Team Kickoff Meeting*



(Participation on discovery projects is approved and funded by NCI and managed through subcontracts administered by Leidos Biomed)

# Actively Managed Discovery Portfolio



# Annual NExT Portfolio Review

## Special Emphasis Panel (SEP)

Artemis Endonuclease inhibitor  
AAA ATPase p97 inhibitor  
Taspase1 inhibitor  
WDR5-MLL1 inhibitor  
LDHA inhibitor

Mutant IDH1 inhibitor  
Mcl1 inhibitor

DNMT1 Inhibitors

Imaging agents:  
NIR Fluorophore  
EGFR Panitumumab  
LUM015

**Discovery**

Preclinical  
Development

**Development**

# SEP Voting and Ranking of Projects

## NExT Portfolio Review Example

### Project A

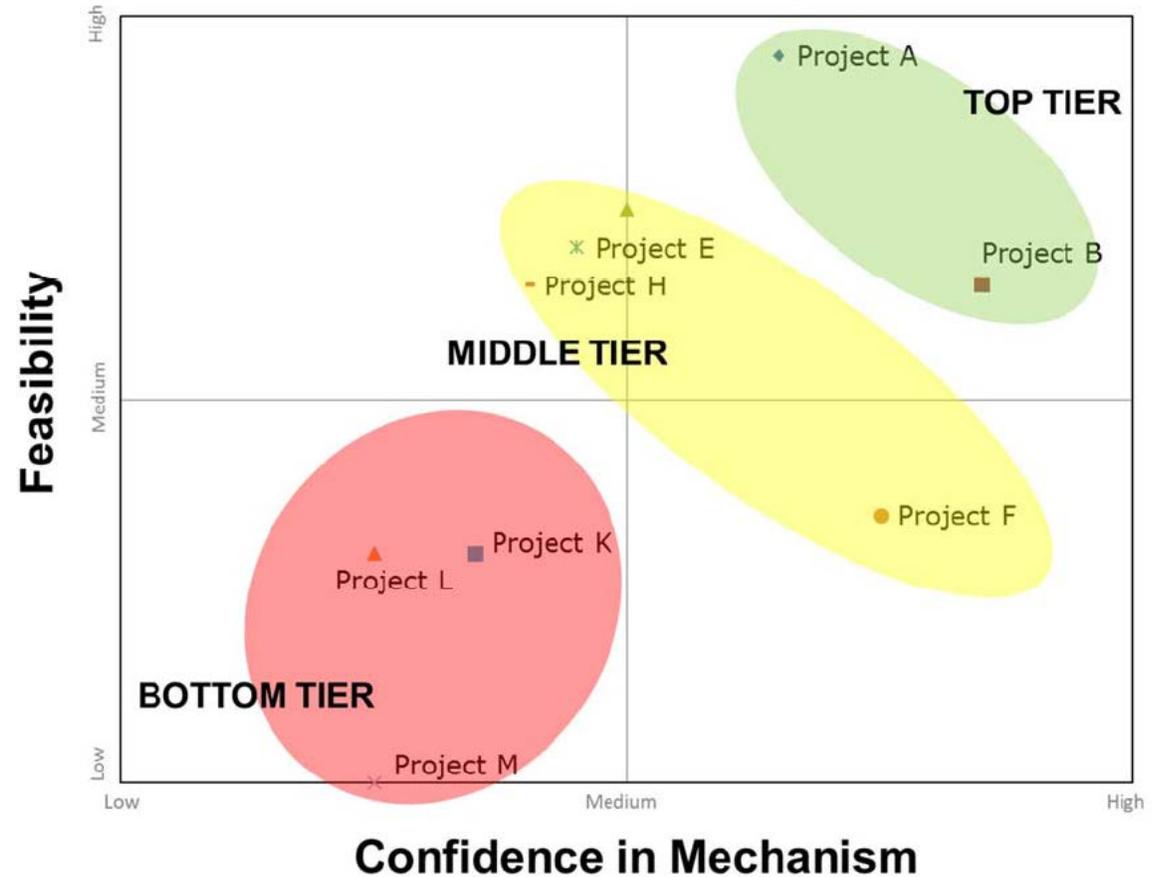
#### 1. Feasibility

Low       Medium       High

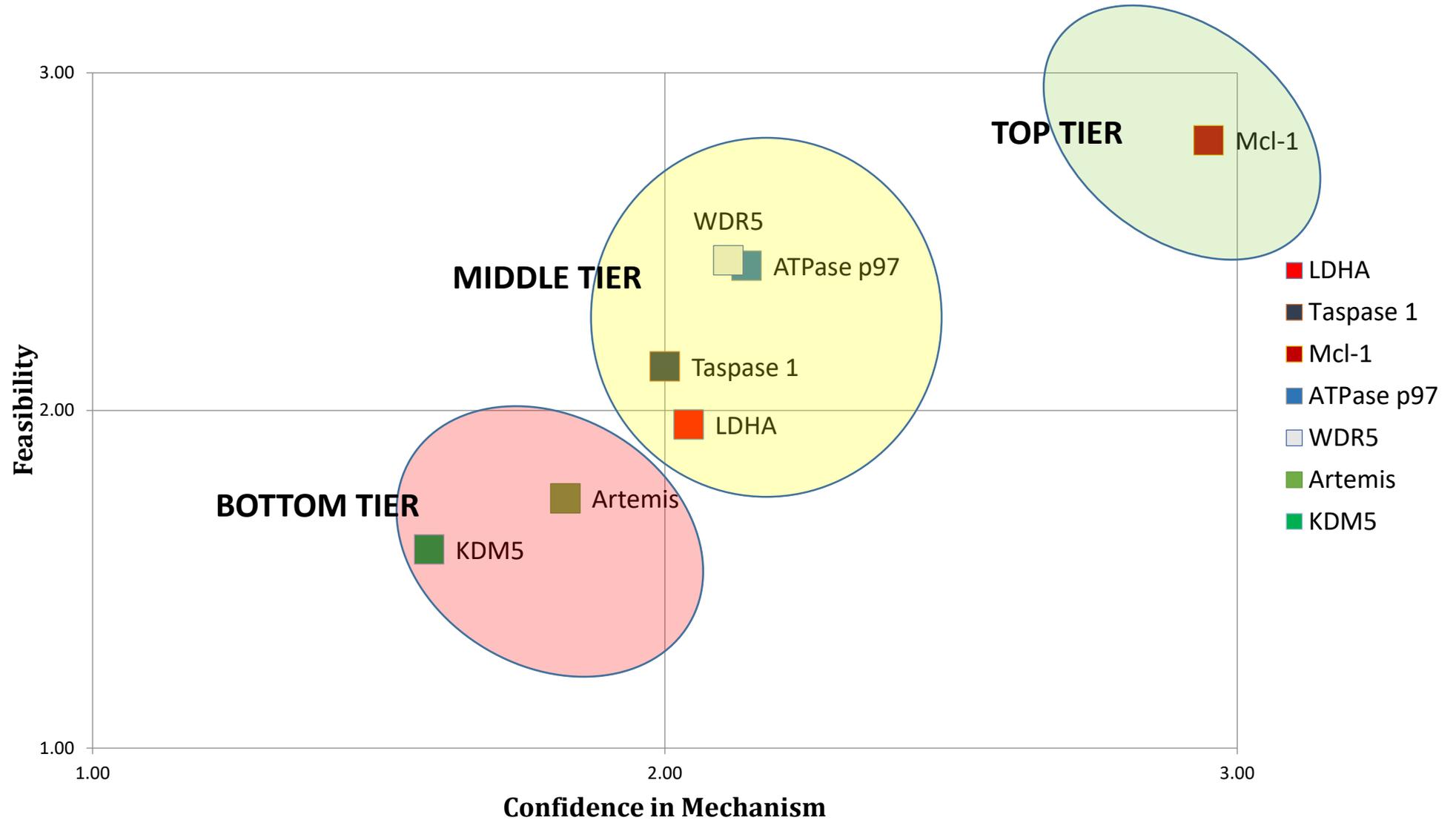
#### 2. Confidence in Mechanism

Low       Medium       High

#### 3. Additional Comments



# 2017 CBC Portfolio Evaluation



# CBC Project Rankings: 2016 vs 2017

