



BioBlocks-Reaction Biology Collaboration

Ongoing multi-target FBLD collaboration Complementary technology platforms BioBlocks lead discovery technology broadens the scope of FBLD to more challenging targets Reaction Biology assay repertoire offers new screening methods in difficult target classes

Our Approach: FBLD

Fragment-Based Lead Discovery provides:

- Useful for targets not amenable to HTS
- Higher quality starting points for lead generation

BioBlocks' Comprehensive Fragment Library (CFL) Designed proprietary fragments, typically:

- 11 to 13 heavy atoms
- Partially aromatic for better properties
- 1 handle for synthetic expansion
- Drug-like, novel cores

Improved Chemical Space Coverage



Non-viable Cores

Improved Hit Follow up

Fragment Hit

Proprietary Leap-to-Lead[™] informatics

- Rapid, low bias automated process
- Structural guidance not required
- High value analog families identified early



Informatics-driven

Analog Generation

>1,000 Related Analogs Per Hit

inhibitors of the histone methyltransferase NSD2

¹BioBlocks, Inc (San Diego, CA), ²Reaction Biology (Malvern, PA)







	Leap-to-Lead™	Traditional FBLD	High Throughput Screening
t	\$	\$\$	\$\$\$\$
ounds	~250-500	~2000	~200-500K
ersity	Clustered, Unique	Redundant	Large, Complex
ical ce age	Superior	Good	Poor
S	1-10 μM	~1-100 μM	~0.1-10 μM
nd ncy	Superior	Good	Poor
' Up	Built In	Expert Required	Standard Medicinal Chemistry