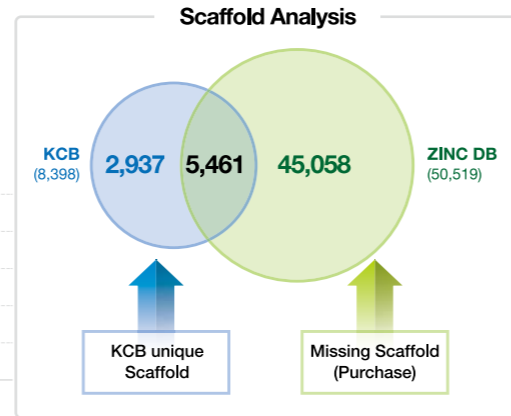
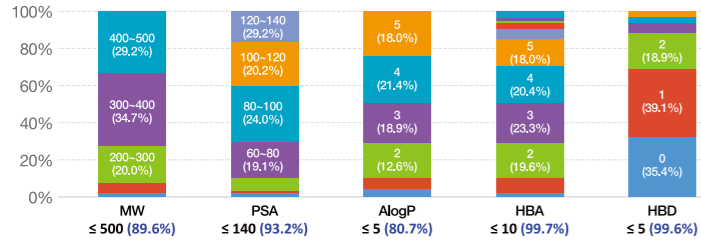


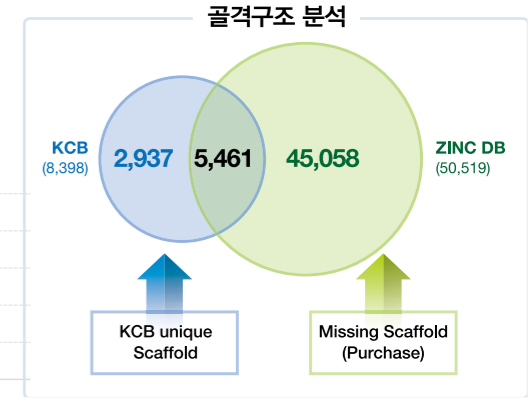
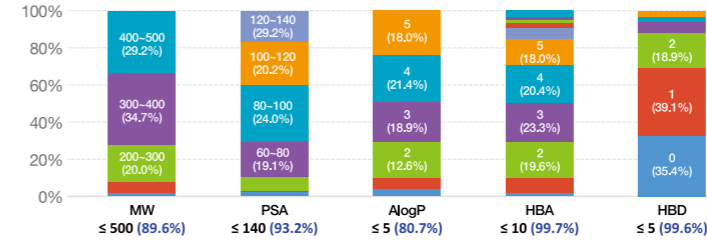
Diversity of KCB compound library

ZINC DB (35M compounds): classified to 50,519 scaffolds
 KCB DB (0.34 compounds): classified to 8,398 scaffolds
 KCB unique scaffolds: 2,937 Drug-Likeness and Physico-chemical properties of KCB library



한국 화합물 은행의 다양성

가상 데이터베이스 (350만종): 50,519 골격 구조 한국화합물은행 (34만종): 8,398 골격구조 한국 화합물은행 고유의 독창적 구조: 2,937 골격구조 한국화합물은행 화합물의 약물성 분석

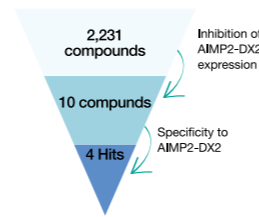


Library types served by KCB

Library	No of compounds
Total Library	340,000
Diversity Set	8,400
Clinical Collection Set	2,300
Kinase Library	3,200
Fragment Library	1,000
Natural Product	1,200
PharmaCore collection	As requested
GPCR, PPI Library	On preparation

DX2 hits from libraries & optimization

763 DR Libraries
 DX2 luciferase
 AIMP2 luciferase
 Cell viability
 30 hits
 IC50 on DX2, AIMP2
 GI50 on A549, WI-26
 5 leads

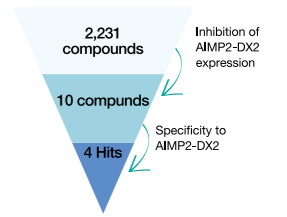


한국화합물은행의 라이브러리 분류

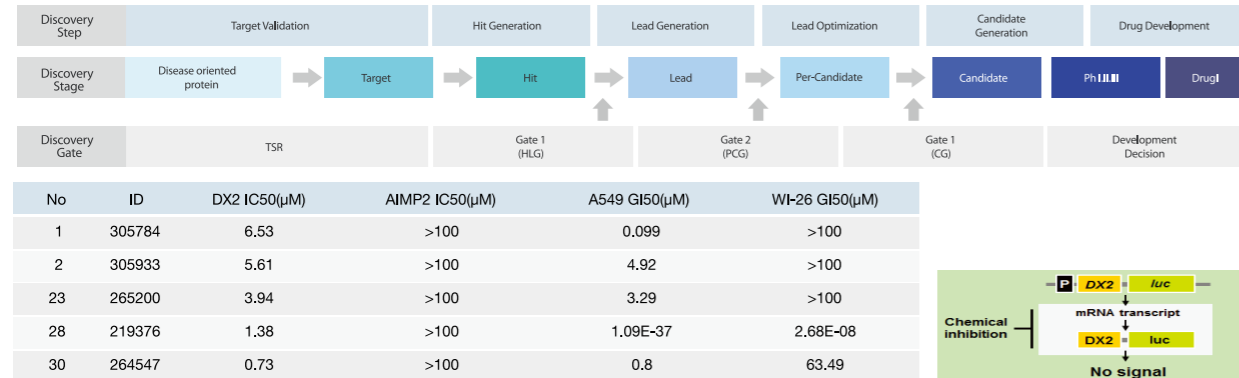
Library	No of compounds
Total Library	340,000
Diversity Set	8,400
Clinical Collection Set	2,300
Kinase Library	3,200
Fragment Library	1,000
Natural Product	1,200
PharmaCore collection	As requested
GPCR, PPI Library	On preparation

라이브러리에서 히트발굴 및 최적화

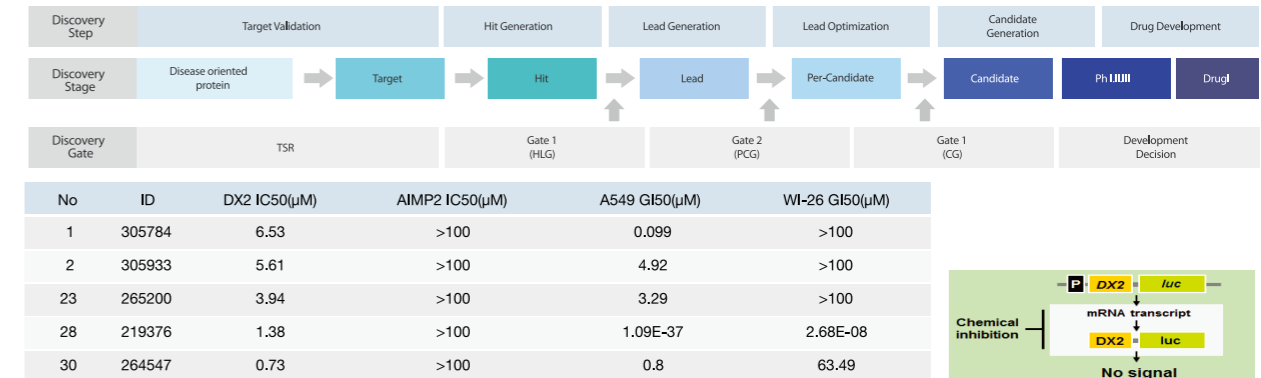
763 DR Libraries
 DX2 luciferase
 AIMP2 luciferase
 Cell viability
 30 hits
 IC50 on DX2, AIMP2
 GI50 on A549, WI-26
 5 leads



Decision gate



신약개발 관문



Publication / Patents

- Leei et al. Biochemical J. 454:411-416, 2013
- Novel maleic acid derivatives, preparation method thereof, and anti-cancer compositions containing them, PCT/KR2014/004933

논문 / 특허

- Leei et al. Biochemical J. 454:411-416, 2013
- 말레인산 유도체 PCT/KR2014/004933