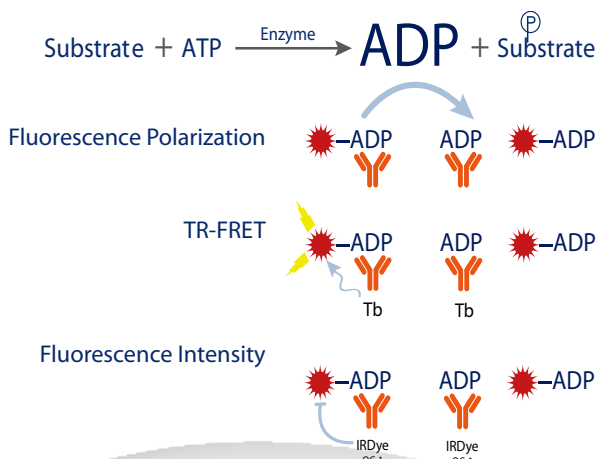


高通量藥物 (Inhibitors) 篩選專家

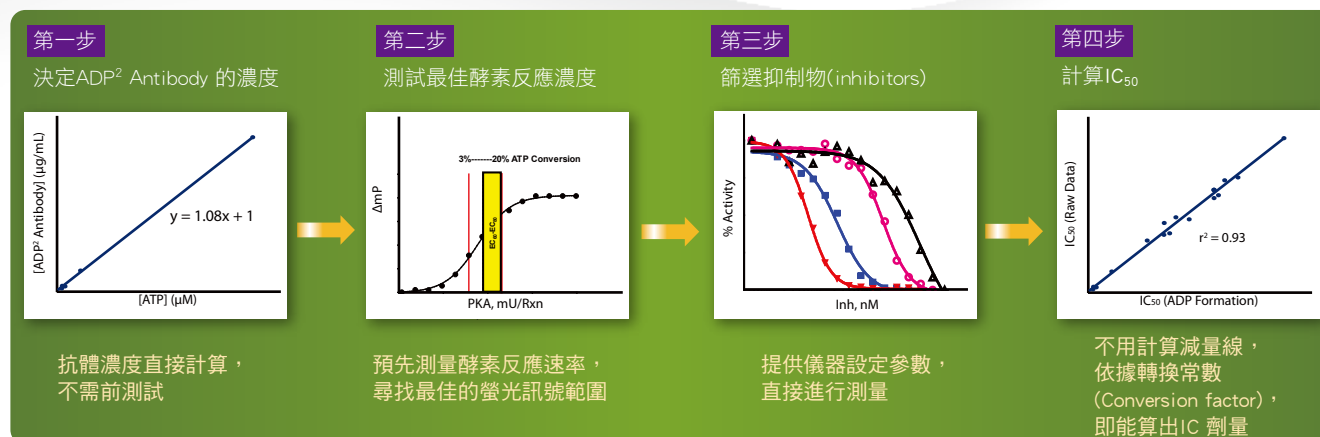
轉譯醫學在藥品及生物科技產業中扮演重要的角色，特別是藥物研發，在癌症研究上特別被重視，期望進一步從癌細胞生成的過程裡(如細胞訊息傳遞路徑、表觀遺傳學)，篩選得到可做為治療癌症的藥物，改善對患者的照顧。

Bellbrook labs 獨創的試劑設計，簡化了藥物篩選步驟，更直接的解決藥物研發的煩惱!



- ▶ 訊息傳遞路徑(ATPase、GTPase)、表觀遺傳學 Epigenetic (Methyltransferase) 等相關激酶研究，抑制物篩選，簡單又方便
- ▶ 三種測量方法:
FP(偏極化螢光)、FI(螢光強度)、TR-FRET (時差性螢光共振能量轉移偵測)技術，適用各大廠牌(如Thermo、BMG)進行高通量篩選(HTS)
- ▶ 只要自備激酶 Enzyme 與受質 substrate (蛋白、peptide、小分子)，簡單一個步驟，混合後即可偵測，訊號穩定又省時間

Screen inhibitors 四步驟



除了ADP² assay 以外，還有偵測 AMP² /GMP²、UDP²、GDP 相關試劑

T RANSCREENER® AMP²/GMP² Assay

Enzyme Targets: Phosphodiesterases, Ub ligase, SUMO ligase, DNA ligase, Acyl CoA synthetase, AA-tRNA synthetase, NAD synthetase, Sialyltransferases (CMP)

T RANSCREENER® UDP² Assay

Enzyme Targets: Glycosyltransferases (glucosyltransferase, glucuronosyltransferases, galactosyltransferase, etc), glycogen synthetase

T RANSCREENER® EPIGEN Methyltransferase Assay

Enzyme Targets: Histone MTs, DNA MTs, Protein arginine MTs, Catecholamine MTs, Histamine MT, Phenylethanolamine MT

T RANSCREENER® GDP Assay

Enzyme Targets: Any GTPase: Gα proteins, Ras-like G proteins (Ras, Rac, Rac, cdc42, etc), GTPase accelerating proteins (GAPs), Fucosyltransferases

超過千篇文獻，族繁不及備載!

1. High-Throughput Screening for RecA Inhibitors Using a Transcreener Adenosine 5'-O-Diphosphate Assay. Peterson, et al; Assay Drug Dev Technol. 2012 10(3):260-8
2. Development and Validation of a Generic Fluorescent Methyltransferase Activity Assay Based on the Transcreener AMP/GMP Assay. Klink, et al; J Biomol Screen. 2012 17:59-70
3. High-throughput fluorescence polarization assay for the enzymatic activity of GTPase-activating protein of ADP-ribosylation factor (ARFGAP). Sun, et al; J Biomol Screen. 2011 16(7):717-2