

L1000	Approved Drug Library	2040	cpds
<p>Traditional de novo drug discovery and development involves an HTS campaign for de novo candidate hits and requires highly specialized screening facilities and compound libraries containing several million compounds. It is a time consuming and expensive process. As the regulation for drug safety and efficacy is increasingly getting complex, the cost of developing new drugs is keeping skyrocket. Drug repositioning, also known as old drugs for new uses, is an effective strategy to find new indications for existing drugs and has recently drawn attention and has led to several blockbuster drugs because of its high efficiency and low-cost. High-content screens, new biomarkers, noninvasive imaging techniques, and advanced in bioinformatics have created new opportunities for pursuing novel indications for approved compounds.</p>			
<p>Approved drugs all have known and well-characterized bioactivities, safety and bioavailability – properties which could dramatically accelerate drug development and optimization. Hits from this set will provide a significant head start in any drug optimization program.</p>			
<p>In addition, a growing number of compounds have been identified from this library that can functionally replace reprogramming transcription factors, enhance efficiency of iPSC generation and accelerate the reprogramming process by single use or a combination of several molecules.</p>			
<ul style="list-style-type: none"> • A unique collection of 2040 approved drugs for high throughput screening (HTS) and high content screening (HCS); • All compounds collected in this library are drugs approved by Food and Drug Administration (FDA), the European Medicine Agency (EMA), or China Food and Drug Administration (CFDA), or included in the US Pharmacopeia (USP) Dictionary, the British Pharmacopoeia (BP), the European Pharmacopoeia (EP), the Japanese Pharmacopoeia (JP), or Chinese Pharmacopoeia (CP) Dictionary; • An effective tool for discovering new with old drugs and new drug target identification; • Covers various research areas, such as Cancer, Cardiovascular disease, GPCR/G protein, Neuroscience, Membrane Transporter/Ion Channel, Microbiology & Virology, Immunology/Inflammation, Tyrosine Kinase/Adaptors, etc. • More detailed compound information with structure, target, activity, IC₅₀ value, and brief introduction; • Structurally diverse, medicinally active, and cell permeable; • NMR and HPLC validated to ensure high purity and quality; 			