



NATURE INFORMED SCREENING COLLECTIONS

NPL-720

Natural products library of 720 pure individual compounds primarily from plant and also from bacteria, fungi, and animal sources

NDL-3000

Natural derivatives library of 3040 chemically diverse compounds that are semi-natural, derived from natural molecules, and synthetic compounds that are natural-compounds-like

Flavonoids-500

Selection combines natural and synthetic flavonoid derivatives built around 9 core flavonoid scaffolds known for their bioavailability

Gossypol and Derivatives

One known active structure focused set of about 80 molecules

Plant Extracts

Crude mixtures of compounds, unpurified extracts, covering expansive geo reach and the diversity of plant material. There are over 100 extracts from plants with known traditional or medicinal use.



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NATURAL DISCOVERY OPPORTUNITY

Nature-informed chemistry has established well-recognized reputation of success in producing new drug leads heading the count of approved medicines. Natural product structures have an immense 62% influence in approved drug therapies, especially for cancers.

Newman DJ, Cragg GM, et.al. Natural products as sources of new drugs over the period 1981-2002. J Nat Prod. 2003 Jul;66(7):1022-37

There are number of factors that have contributed to the natural chemistry position of prominence including diminished productivity in the pharmaceutical industry and unfulfilled promises of early combinatorial chemistry. As for the latter, newly emerged diversity oriented synthesis (DOS) technology greatly contributes to the design and synthesis of nature “cross-over” molecules. Natural products and nature-informed chemistry furnishes molecules that tend to be multi-active being bio-available for more than one target.

Marcaurette LA, Johannes CW. Application of natural product-inspired diversity-oriented synthesis to drug discovery. Prog Drug Res. 2008;66:187, 189-216.

Natural products research is here to stay and shape the future bringing more novel medicines for breakthrough treatments. There remains the vastly untapped potential of diverse natural sources that offer superior quality of discovery leads. For example, for flora alone “it is supposed that only 5-15% of approximately 250,000 species of higher plants have been investigated for the presence of bioactive compounds”.

Füllbeck M, Michalsky E, Dunkel M, Preissner R. Natural products: sources and databases. Highlight Nat. Prod. Rep. 2006 April 10; 23, 347 - 356.

In Natural Product Reports article about research trends and industry survey, TimTec is identified as one of the major suppliers that offer broad range of diverse natural products including pure natural compounds, natural product derivatives, scaffolds-oriented sets, and plant extracts available from stock.

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