

# Using Nano Biotechnology to Find New Drugs Discovery

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### Abstract

Although the "rule-of-five" (also known as "Lipinski's rule of drug-likeness") is a very helpful guideline for designing orally accessible small-molecule drugs, it has in some ways been overemphasised. First off, only 51% of all small-molecule medications that have received FDA approval are taken orally and adhere to the "rule-of-five." This doesn't even take into account the growing number of biologicals, some of which have become "blockbuster" hits. Secondly, it does not encompass natural product and semisynthetic natural product medications, which constitute roughly one-third of all marketed small-molecule pharmaceuticals. Instead of relying too heavily on 'rule-of-five' compliance, a more balanced and systematic approach to drug discovery ought to be more fruitful. These are especially important when attempting to combat "best-in-class" and/or extremely difficult targets, such proteases and those involving protein-protein interactions. Additionally, greater work should go into studying natural products. Synthetic biology, which involves genetically altering living things to make small-molecule medicines, may be able to address some of the difficult problems associated with natural product-based drug development, such as synthetic feasibility and ligand efficiency.

Keywords: Drug discovery; Nanotechnology; Chemistry

## Introduction

Proteomics applications of nanotube electronic biosensors Using single-walled carbon nanotubes as a platform, researchers have studied surface-protein interactions the creation of extremely targeted electronic biomolecule detectors, and protein binding. Arbitrary binding on nanotubes, a phenomenon present in a variety of the immobilization of polyethylene-oxide chains defeats proteins. The overall approach used here enables the specific identification and attachment of target proteins, and their particular receptors' coupling to polyethylene-oxide nanotubes with added functions. These arrays look good. Because the full test can be performed without labeling, to take place during the solution phase. When this plan is paired electrical gadgets made with nanotubes are sensitive, which offers therapeutically useful electronic sensors with high specificity vital biomolecules (like antibodies linked to with autoimmune disorders in people). In the end, developing a successful medicine requires applying science to make an investment that will pay off. Value to a range of clients and partners. To be able to in order to succeed, consumer needs must be recognised and properly reflected in the product's design requirements. The most important and first task a new employee must complete This specification, which is to be determined by the project team, is Often referred to as the Target Product Profile (TPP).

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Topography and Recognition Imaging (TREC) is a technique that makes use of a ligand (such as an antibody or a tiny chemical compound) atom or a nucleotide), attached to an expertly made AFM tip-sensor, for estimating structural and affinity data the means of a series of unbinding tests. A ligand, if connected to an AFM probe, one can mimic different physiological states and consider the strength of a ligand's and receptor's interaction in a wide range of situations. By making the tip useful, it may be applied to detect and test biological systems, as well as certain chemical substances on a biological surface sample. This makes way for AFM applications that are more fruitful. in the hunt for drugs.

### Conclusion

The majority of industrial drug discovery efforts currently focus on finding small molecule, orally accessible medications that adhere to the "rule of five," particularly in large pharmaceutical companies. Only 50% of all small-molecule medications that have received FDA approval are taken orally and adhere to the "rule of five." In other words, about half of all small-molecule medications either do not have an oral dosage form or do not adhere to the "rule of five"