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In this article, we explore recent

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developments related to cell-based phenotypic screening, discuss the elements of a good phenotypic drug screen, and discover how these approaches are helping to provide a more accurate biological context for drug screening.

## **Exploring the Drug Development**

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Drug discovery is the process of identifying new medicines for treating or curing human diseases. 1 Historically, the discovery of new medicines involved extracting ingredients from natural products and basic research to find potential treatments. Progress was generally slow, frustrating and labour-

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intensive. Accelerating drug discovery

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Development, discusses the evolution of artificial intelligence (AI), and how it can be used to discover, develop and test new ...

## **Drug Discovery Science Articles | Technology Networks**

Drug discovery and development Drug development process. A variety of

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approaches is employed to identify chemical compounds that may be developed and marketed. The current state of the chemical and biological sciences required for pharmaceutical development dictates that 5,000–10,000 chemical compounds must undergo laboratory screening for each new drug approved for use in humans.

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## **Pharmaceutical industry - Drug discovery and development ...**

Pathophysiology models for drug  
discovery. Edited by Dimitrios Zeugolis.  
September 2016. SI: Precision medicine.  
December 2015. View all article  
collections. View all issues. About the  
journal. Incorporating Drug Discovery

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Today: TARGETS, Drug Discovery Today:  
BIOSILICO and Pharmaceutical Science &  
Technology Today; ISSN.

**Drug Discovery Today | Journal |  
ScienceDirect.com**

June 15, 2018 — A new review article  
offers an informative guide to the  
established and emerging tools available

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for early drug discovery and screening,  
and provides illustrative scenarios ...

### **Drug discovery - ScienceDaily**

Within the different phases of the drug life cycle, drug development is by far the most crucial part for the initial and continued success of a drug on the market [1,2]. The process of drug

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discovery involves a combination of many disciplines and interests starting from a simple process of identifying an active compound.

## **Drug Discovery and Development - A Review | Open Access ...**

Consortia are enabling drug discovery in areas that individual organizations are

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unable to support alone because of the high risk or the need to pool information. This article discusses desirable ...

## **What makes a drug discovery consortium successful?**

This article presents a comprehensive analysis of these data, which highlight the strong contribution of biotechnology



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companies, particularly in the United  
States, to innovative drug discovery ...

**The importance of new companies  
for drug discovery ...**

Drug Discovery Today delivers informed  
and highly current reviews for the  
discovery community. The magazine  
addresses not only the rapid scientific

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developments in drug discovery associated technologies but also the management, commercial and regulatory issues that increasingly play a part in how R&D is planned, structured and executed.. Features include comment by international experts, news ...

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**Drug Discovery Today - Journal -  
Elsevier**

An increasing number of new drugs have their origin in small biotech or academia. In contrast to big pharma, these environments are often more limited in terms of resources, and this necessitates different approaches to the drug discovery process. In this review, we

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outline how computational methods can help advance drug discovery in a setting with more limited resources and we share what ...

## **Computational Chemistry on a Budget: Supporting Drug ...**

Interest is growing in the use of macrocycles in pharmaceutical

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discovery. Macrocyclization may provide a gateway to an expanded chemical space for small-molecule drug discovery, and this could be beneficial in prosecuting difficult targets, e.g., protein-protein interactions. Most, but not all, macrocycle drugs are derived from natural products. Studies on synthetic drug-like small-molecule ...

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## **Structure-Based Macrocycle Design in Small-Molecule Drug ...**

Advancing computer-aided drug  
discovery (CADD) by big data and data-  
driven machine learning modeling. Linlin  
Zhao, Heather L. Ciallella, Lauren M.  
Aleksunes, Hao Zhu. In Press, Corrected  
Proof, Available online 11 July 2020

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In the fields of medicine, biotechnology and pharmacology, drug discovery is the process by which new candidate medications are discovered.. Historically, drugs were discovered by identifying the

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active ingredient from traditional remedies or by serendipitous discovery, as with penicillin. More recently, chemical libraries of synthetic small molecules, natural products or extracts were screened ...

## **Drug discovery - Wikipedia**

Beyond inventing new drugs, AI is also



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being used by other scientists to identify new drug targets—that is, the place to which a drug binds in the body and another key part of the drug discovery process. Between 1980 and 2006, despite an annual investment of \$30 billion, researchers only managed to find about five new drug targets a year.

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## **How Real World Evidence Analytics**

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**Can Accelerate COVID-19 ...**

Newswise — BOSTON (July 23, 2020)—A new technology that combines high throughput imaging and machine learning could speed discovery of drugs to fight tuberculosis, which for generations has ...

**New cell profiling method could**

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**speed TB drug discovery**

Disease diagnosis, drug discovery, robot delivery—artificial intelligence is already powering change in the pandemic's wake. That's only the beginning.

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