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Advances in Phenotypic Screening: A Turning Point for Drug Discovery? Article
In this article, we explore recent 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 Process | Technology Networks

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-intensive. Accelerating drug discovery

Intelligent drug discovery - Deloitte Insights

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Recent Drug Discovery Today Articles - Elsevier

The Future of Drug Discovery: AI, Automation and Beyond Article In a recent interview with Technology Networks , Pieter Peeters, Leader of High Dimensional Biology and Discovery Data Sciences Group at Janssen Research & Development, discusses the evolution of

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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 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.

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 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 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

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areas that individual organizations are 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 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 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 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 discovery. Macrocylation 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 ...

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
Download PDF. Article preview.

Drug Discovery Today | ScienceDirect.com

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

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were screened ...

Drug discovery - Wikipedia

Beyond inventing new drugs, AI is also 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.

How AI Will Make Drug Discovery Low-Cost, Ultra-Fast, and ...

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How Real World Evidence Analytics Can Accelerate COVID-19 ...

Newswise — BOSTON (July 23, 2020)—A new technology that combines high throughput imaging and machine

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learning could speed discovery of drugs
to fight tuberculosis, which for
generations has ...

**New cell profiling method could
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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