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Drug Discovery and
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industry - Drug
discovery and
development: 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

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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 ...

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This is an excellent resource for anyone interested in Drug Discovery and Development as well as Clinical Research and Clinical Trials. This book discusses the process of taking a concept to development of a drug. Processes such as HTS and In Silico are discussed in this

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book as well as the
different phases of a
clinical trial.

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Whilst the world
waits for an effective
COVID-19 vaccine to

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And be developed,
researchers are
working tirelessly to
design new drugs
and repurpose
existing drugs
against the novel
coronavirus SARS-
CoV-2.

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Discovery and
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Although these drugs differ chemically, interact with targets not traditionally considered

“ receptors ” , i.e. cognate sequences in RNA, and bind to their receptors via a mode different from small molecules, the technology has much more in common with small molecule

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Drug discovery and development than those using monoclonal antibodies, protein replacement therapy, gene therapy or RNA therapy, all of which employ macromolecules as drugs (for review, see , , ,). Thus, to fully understand the ...

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~~Antisense drug
discovery and
development
technology ...~~

On average,
developing a new
drug takes 12 years
and costs \$2.6 billion,
with 9 out of 10
drugs entering
clinical trials failing to
enter the market.¹
While digital
technology and big

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data have led to paradigm shifts in other sectors (think Netflix, Uber, and Amazon), the biopharmaceutical industry has been considered a laggard on the digital integration front.

~~Data and Digital
Technology Trends in
Drug Development ...~~

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Drug development is the process of bringing a novel drug from “ bench to bedside ”. It can take 10 to 15 years for a drug to be designed, developed and approved for use in patients (Fig 1). In some circumstances, the drug development and approval process can

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be expedited – for example, if the drug is the first available treatment for a condition, or it shows a significant benefit over existing drugs.

~~Exploring the Drug
Development Process
| Technology
Networks
Scope of drug~~

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And
discovery

technologies Before
development
discussing

Technology In
innovation, the scope
of drug discovery

covered by this paper
should be defined.

The drug discovery
process covers a

broad range of
disciplines from

genomics and target
discovery to pre-

clinical testing.

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Within this space
there are a variety of
hardware, software
and biological
technologies.

Innovations In Drug
Discovery

Technology—Drug
Discovery ...

Drug discovery and
development The
process of bringing a
new medicine to

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Market is extremely challenging, costing an average of \$2.6B and taking up to 12 years. It is therefore important for pharmaceutical companies to optimize the drug discovery and development process, to maximize the lifetime of the medicine before

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And patents expire.

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~~The Drug Discovery &
Development Process
in Pharmaceutical ...~~

The biotechnology revolution redrew the research, development, production and even marketing processes of drugs. Powerful new instruments and biotechnology

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related scientific disciplines (genomics, proteomics) make it possible to examine and exploit the behavior of proteins and molecules.

~~Biotechnology and genetic engineering in the new drug ...~~

Includes the new molecular techniques

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of drug design and
development.

Discusses current
therapeutic needs.

Covers pharmacoepi-
demiology and
pharmacoeconomics.

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Rang, who is also
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the world as a co-
author of the
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successful and

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magazine features
insightful articles on
the discovery and
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blockchain in drug
discovery and
development Since
its first use in
managing digital
fund transactions,

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And blockchain

technology has been extrapolated to many other industries, with the potential to transform the global economy by changing the way business is done.

~~The applications of
blockchain
technology in drug ...~~
Drug development

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scientists in the pharmaceutical industry often look to academic

laboratories for leadership and partnership in developing the tools needed to assess PD effects of drugs, as the technology for making these assessments (e.g. biochemical assays,

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imaging procedures, positron emission tomography ligands, evaluating the cargo of exosomes) is often not compound specific and may require scientific knowledge not readily available in a company.

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~~basic biological ...~~

Drug discovery and
development 1.

Introduction • In the
past most drugs have
been discovered
either by identifying
the active ingredient
from traditional
remedies or by
serendipitous
discovery. • But now
we know diseases are
controlled at

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molecular and
physiological level.

~~Drug discovery and
development~~

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CRUK-TDL is the in-house CRUK drug discovery unit with a principal focus on establishing and prosecuting biologically-themed multi-project

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Alliances with industry. It has expertise spanning cancer target validation and disease positioning, assay development and HTS, protein crystallography, medicinal chemistry, PK-PD and cancer models.

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drug discovery and
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technology Although
it is hard to find
clinically-validated AI
drug discovery

technology, two SOM
Biotech programmes
have positive Clinical
Phase 2a results.

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Clinical development
of those programmes
allowed to SOM
Biotech to have the
AI drug discovery
technology with
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This is an excellent
resource for anyone

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Interested in Drug
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as Clinical Research
and Clinical Trials.

This book discusses
the process of taking
a concept to
development of a
drug. Processes such
as HTS and In Silico
are discussed in this
book as well as the
different phases of a

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