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Introduction to Module 6:
Drug Discovery and
Development ~~Drug discovery
and development process~~

Trends in drug discovery and

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**development | Dr Ken Yeong |
TEDxMonashUniversityMalaysia**

~~Drug Discovery \u0026~~

~~Development: Customization~~

Discover NIMH: Drug

Discovery and Development

Drug Discovery \u0026

Development: Collaboration

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Development: Expertise **Using
Artificial Intelligence to
revolutionise drug discovery
and development Drug
Discovery and Development
Using AI - Vishnu Vettrivel
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CHAPTER 2: DRUG DISCOVERY AND DEVELOPMENT

Drug Discovery and
Development Process |
Clinical Research | *Drug
Discovery and Development -
Overview | New Drug
Discovery Procedure |*

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Development 7 Steps to Drug
Discovery Machine learning
in action during drug
discovery How a Drug Becomes
a Drug Alice Zhang Is Using
AI To Transform Drug
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in Two Stories -- Evan

Feinberg A basic introduction to drugs, drug targets, and molecular interactions. ~~The Drug Discovery Process What is Genomics — Full Length~~

An Overview of the Drug

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Development Process **Machine
learning in drug discovery:
what can go wrong? – Vikram
Sundar** Drug Discovery \u0026
Development: Support Lecture
3: Drug Discovery and
Development – An Overview
How Technology is Driving

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the Future of Drug
Development *MIT Quest for
Intelligence Launch: AI-
Driven Drug Discovery* Drug
Discovery, Biotech, and AI
with Alex Zhavoronkov, CEO,
Insilico Medicine (CX0Talk
#327) From idea to medicine

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Pharmaceutical industry -
Pharmaceutical industry -
Drug discovery and
development: A variety of
approaches is employed to

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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

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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

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Development of a drug.
Processes such as HTS and In
Silico are discussed in this
book as well as the
different phases of a
clinical trial.

~~Drug Discovery and~~

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~~Development - E-Book:~~

~~Technology in . . .~~

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COVID-19 Drug Development

Article Whilst the world

waits for an effective

COVID-19 vaccine to be

developed, researchers are

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working tirelessly to design new drugs and repurpose existing drugs against the novel coronavirus SARS-CoV-2.

~~COVID-19 Drug Discovery and
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~~Networks~~

Though 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

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Small molecules, the technology has much more in common with small molecule drug discovery and development than those using monoclonal antibodies, protein replacement therapy, gene therapy or RNA therapy,

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all of which employ
macromolecules as drugs (for
review, see , , ,). Thus,
to fully understand the ...

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

On average, developing a new

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Development 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 data have led to paradigm shifts in other sectors

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(think Netflix, Uber, and Amazon), the biopharmaceutical industry has been considered a laggard on the digital integration front.

~~Data and Digital Technology~~

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~~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

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approved for use in patients (Fig 1). In some circumstances, the drug development and approval process can be expedited – for example, if the drug is the first available treatment for a condition ,

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or it shows a significant
benefit over existing drugs.

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

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discussing 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

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

~~Innovations In Drug
Discovery Technology — Drug
Discovery ...~~

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Drug discovery and development The process of bringing a new medicine to market is extremely challenging, costing an average of \$2.6B and taking up to 12 years. It is therefore important for

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pharmaceutical companies to optimize the drug discovery and development process, to maximize the lifetime of the medicine before patents expire.

~~The Drug Discovery &~~

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~~Development Process in
Pharmaceutical . . .~~

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

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

~~Biotechnology and genetic~~

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~~Development in the new drug~~

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Includes the new molecular techniques of drug design and development. Discusses current therapeutic needs. Covers pharmacoepidemiology and pharmacoeconomics.

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Edited by Humphrey Rang, who is also known throughout the world as a co-author of the enormously successful and authoritative textbook, Pharmacology, now in its fifth edition.

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Development: Technology in
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Pharma Tech outlook magazine features insightful articles on the discovery and development of a new medicine, new drug discovery

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Development, the listing of
top drug discovery and
development solution
providers and many more.

~~Recent Technology in Drug
Discovery and Development
Europe ...~~

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Development –
Present and Future C
Keyword. 18. Clinical
imaging in drug development
P M Matthews. 19.
Intellectual property in
drug discovery and
development P Grubb. 20.

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Regulatory affairs I
Hägglöf, Å Holmgren. 21.
Marketing the drug V L
Lawton. SECTION 4. FACTS AND
FIGURES. 22. Drug discovery
and development – facts and
...

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Development — 2nd Edition~~

Applications of blockchain
in drug discovery and
development Since its first
use in managing digital fund
transactions, blockchain
technology has been

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III Transition Ze
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~~

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~~Drug Development Technology~~

Drug development scientists in the pharmaceutical industry often look to academic laboratories for leadership and partnership in developing the tools needed to assess PD effects

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of drugs, as the technology for making these assessments (e.g. biochemical assays, imaging procedures, positron emission tomography ligands, evaluating the cargo of exosomes) is often not compound specific and may

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Development scientific knowledge
not readily available in a
company.

~~Drug discovery and
development: Role of basic
biological ...~~

Drug discovery and

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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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Discovery And

Development and physiological
level.

~~Drug discovery and
development — SlideShare~~
CRUK-TDL is the in-house
CRUK drug discovery unit
with a principal focus on

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Development and prosecuting
biologically-themed multi-
project alliances with
industry. It has expertise
spanning cancer target
validation and disease
positioning, assay
development and HTS, protein

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Crystallography, medicinal
chemistry, PK-PD and cancer
models.

~~Drug Discovery | Commercial
Partnerships | Cancer
Research UK~~

Clinically validated AI drug

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development technology
Although it is
hard to find clinically-
validated AI drug discovery
technology, two SOM Biotech
programmes have positive
Clinical Phase 2a results.
Clinical development of

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those programmes allowed to
SOM Biotech to have the AI
drug discovery technology
with proof-of-concept.

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development company, SOM
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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

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development of a drug. Processes such as HTS and In Silico are discussed in this book as well as the different phases of a clinical trial.

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