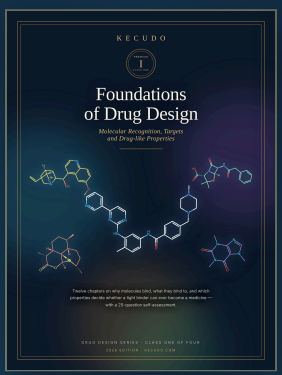
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# Drug Design

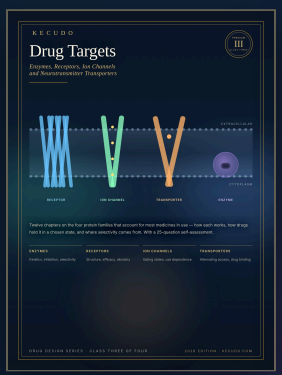
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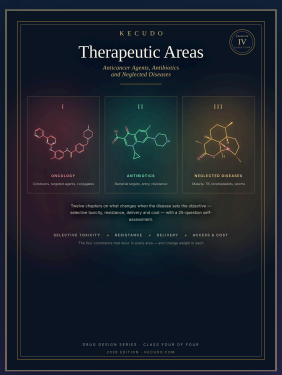

**CLASS I**
Foundations of Drug Design




**CLASS II**
Design Methods




**CLASS III**
Drug Targets




**CLASS IV**
Therapeutic Areas

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From why molecules bind, through how they are designed, to what they are designed against — and what changes when the disease sets the objective.

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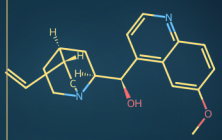
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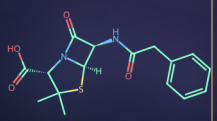
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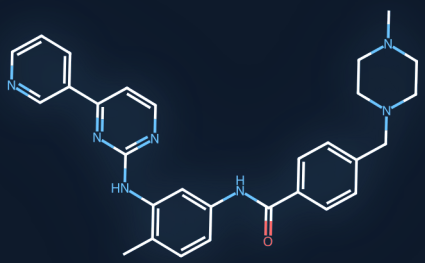
PREMIUM
I
CLASS ONE

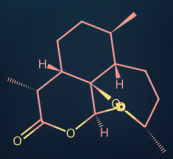
# Foundations of Drug Design

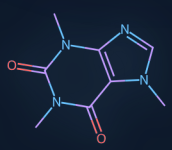
*Molecular Recognition, Targets and Drug-like Properties*











Twelve chapters on why molecules bind, what they bind to, and which properties decide whether a tight binder can ever become a medicine — with a 25-question self-assessment.

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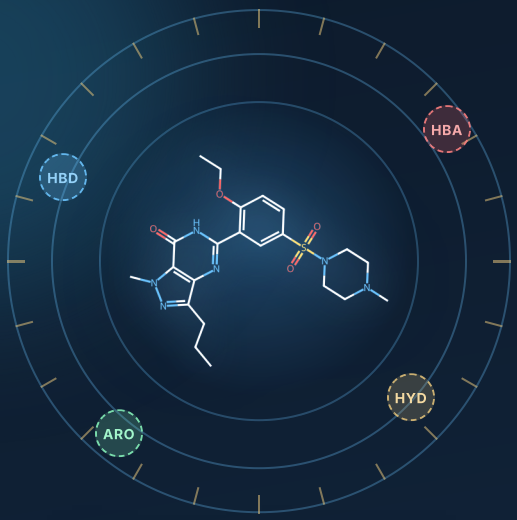
ASSESSMENT

— Self-assessment: 25 questions 34
— Your rating 40

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II
CLASS TWO




# Design Methods

*Ligand-based, Structure-based and Mechanism-based Design*

Twelve chapters on how molecules are actually designed — pharmacophores, QSAR, docking, fragments, covalent chemistry, peptides and biologics — with a 25-question self-assessment.

PHARMACOPHORES • DOCKING • FRAGMENTS • COVALENT • PEPTIDES

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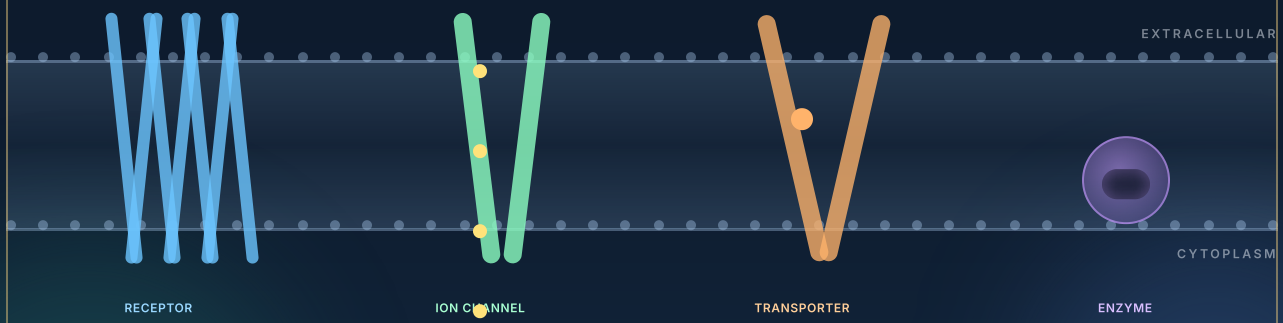
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III
CLASS THREE

# Drug Targets

*Enzymes, Receptors, Ion Channels and Neurotransmitter Transporters*




Twelve chapters on the four protein families that account for most medicines in use — how each works, how drugs hold it in a chosen state, and where selectivity comes from. With a 25-question self-assessment.

**ENZYMES**

Kinetics, inhibition, selectivity

**RECEPTORS**

Structure, efficacy, allostery

**ION CHANNELS**

Gating states, use dependence

**TRANSPORTERS**

Alternating access, drug binding

KECUDO · CLASS THREE

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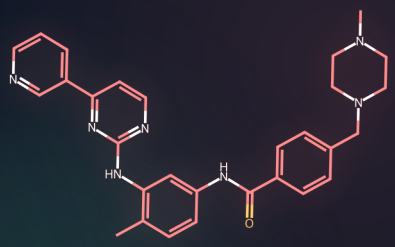
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# Therapeutic Areas

*Anticancer Agents, Antibiotics and Neglected Diseases*

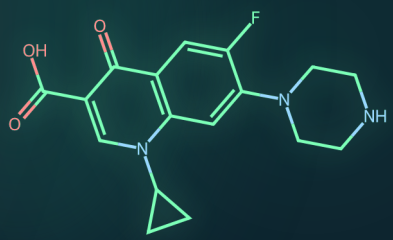
I



**ONCOLOGY**

Cytotoxics, targeted agents, conjugates

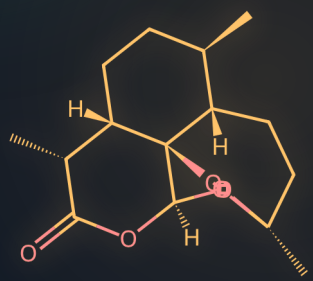
II



**ANTIBIOTICS**

Bacterial targets, entry, resistance

III



**NEGLECTED DISEASES**

Malaria, TB, kinetoplastids, worms

Twelve chapters on what changes when the disease sets the objective — selective toxicity, resistance, delivery and cost — with a 25-question self-assessment.

SELECTIVE TOXICITY • RESISTANCE • DELIVERY • ACCESS & COST

The four constraints that recur in every area — and change weight in each

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