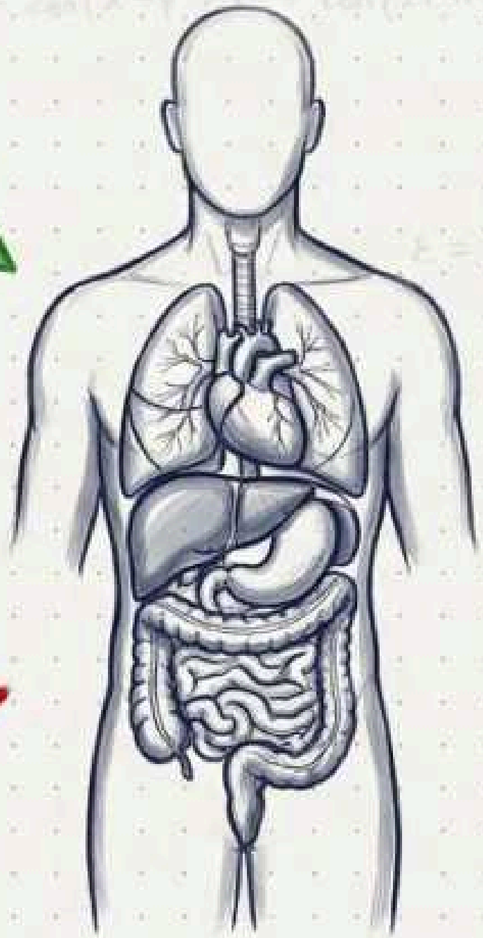
Medicine 511 B: Principles of Pharmacology

¶ 0.1

How drugs act on the body.



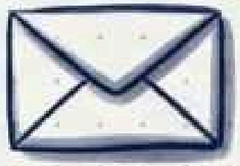


How the body acts on drugs.

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Direct Lines for Questions and Feedback

Questions or feedback about this course are welcome.



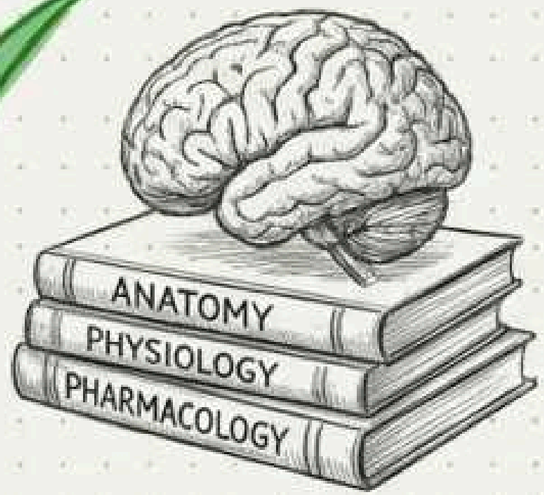
garyanderson@mail.grokbot.com



@garyanderson

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The Boundary Between Science and Practice



Medical Knowledge

- Focus of this course
- Teaches underlying principles



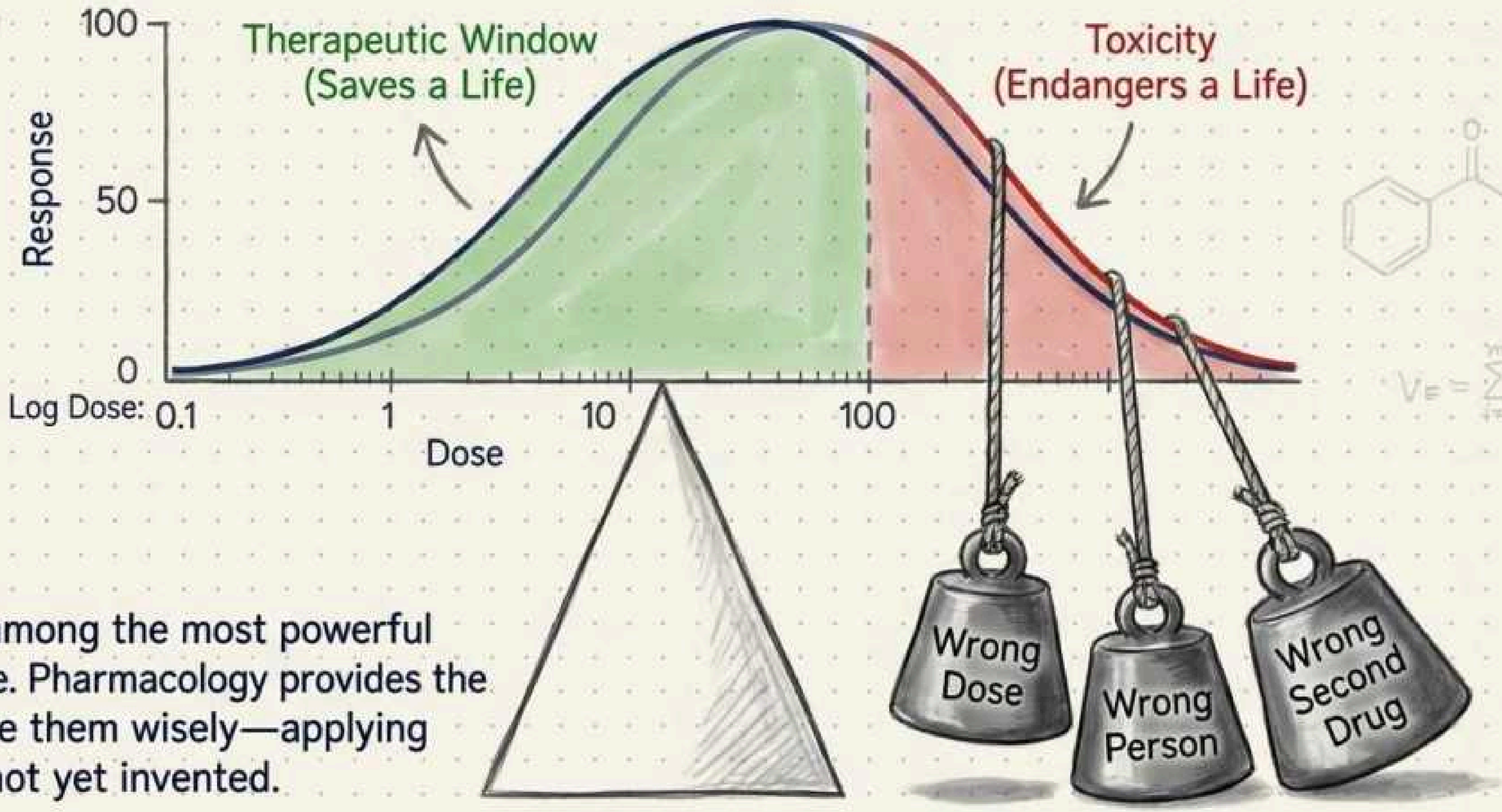
Medical Training

- Does NOT provide clinical skills or license
- NOT a guide to taking, stopping, or changing medicine
- Decisions belong to the treating doctor or pharmacist.

This course teaches medical knowledge, not medical training.

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The Power and Peril of Medicines



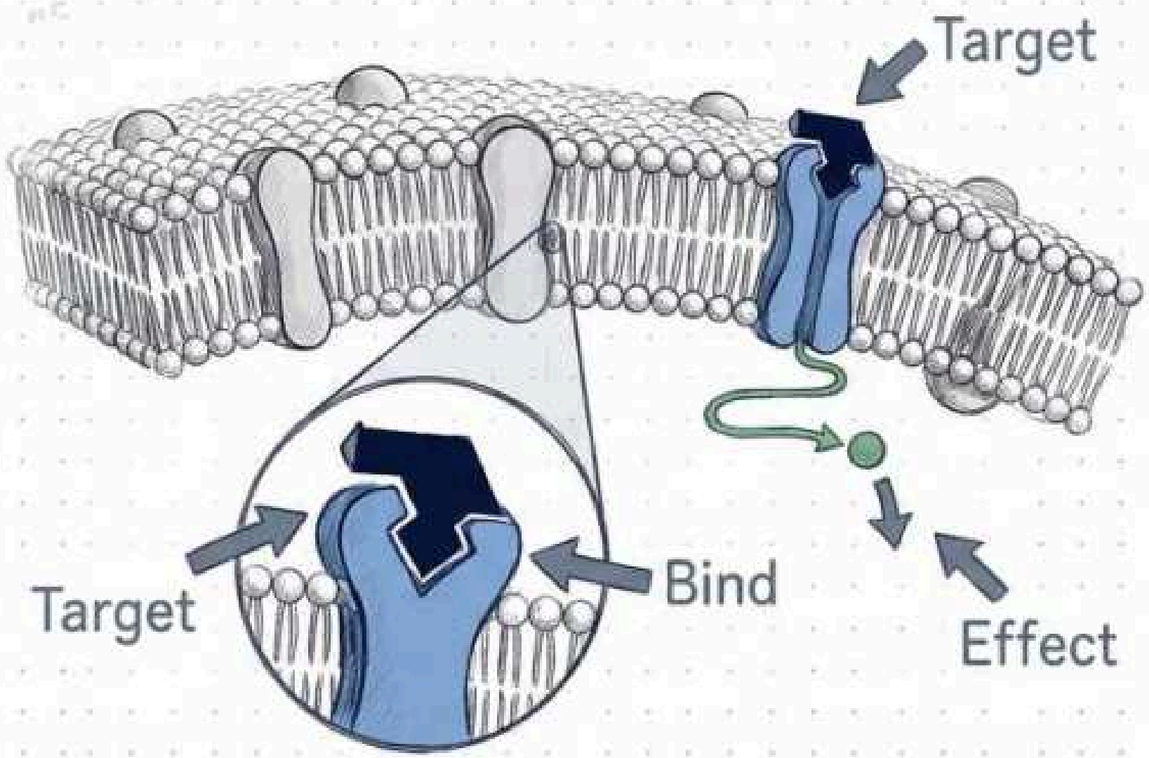
Medicines are among the most powerful tools in medicine. Pharmacology provides the principles to use them wisely—applying even to drugs not yet invented.

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The Two Halves of Pharmacology

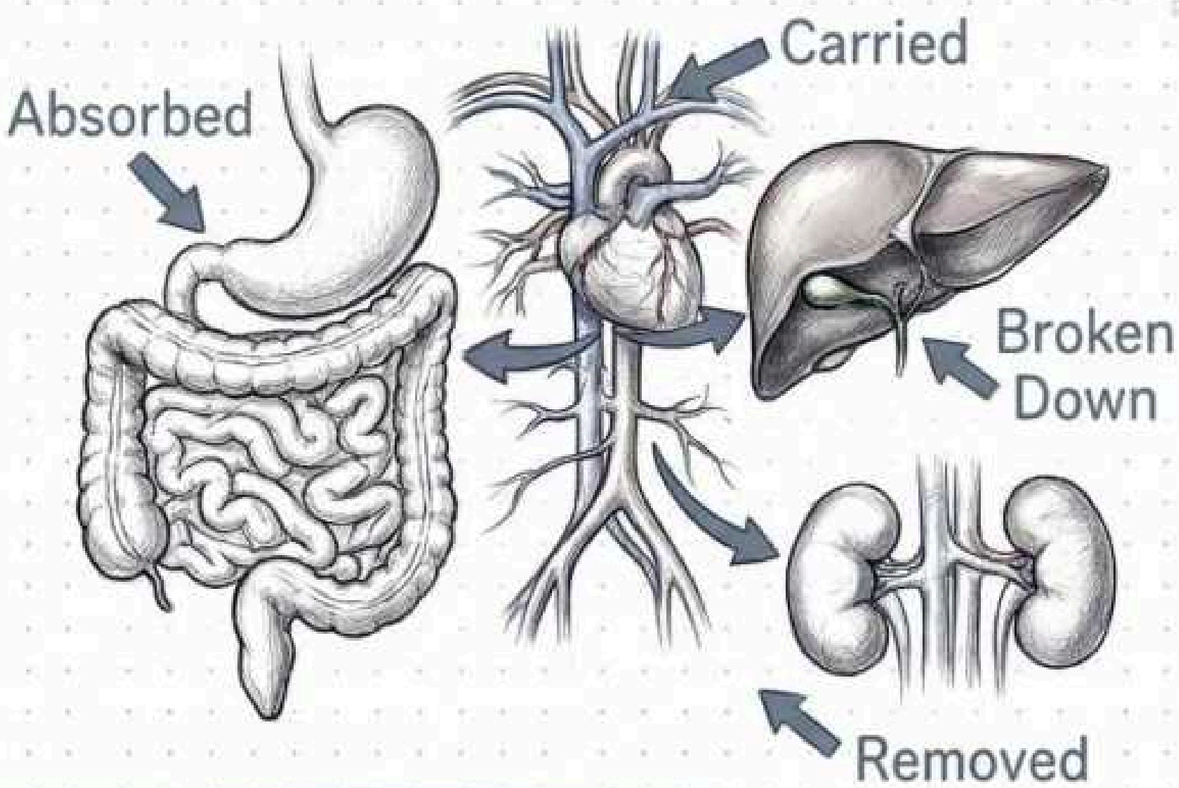
Pharmacodynamics (PD)

What the drug does to the body.



Pharmacokinetics (PK)

What the body does to the drug.

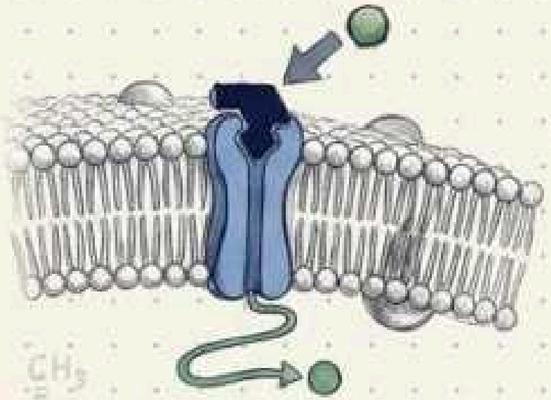


Clinical Effect = Pharmacodynamics × Pharmacokinetics

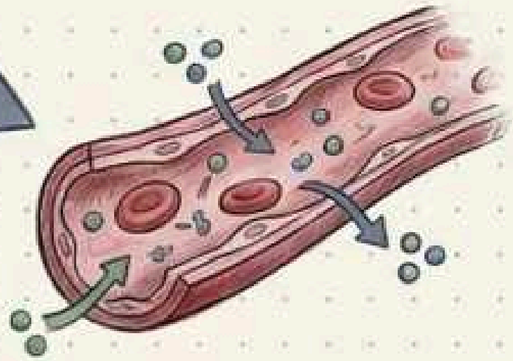
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The Course Roadmap

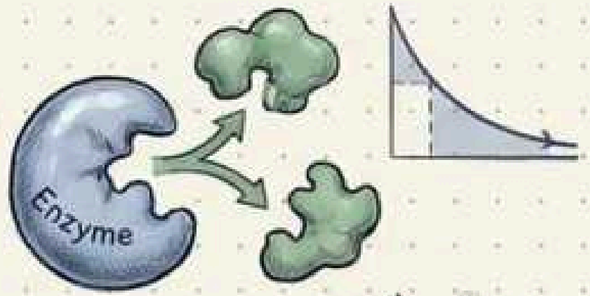
Receptors & Dose

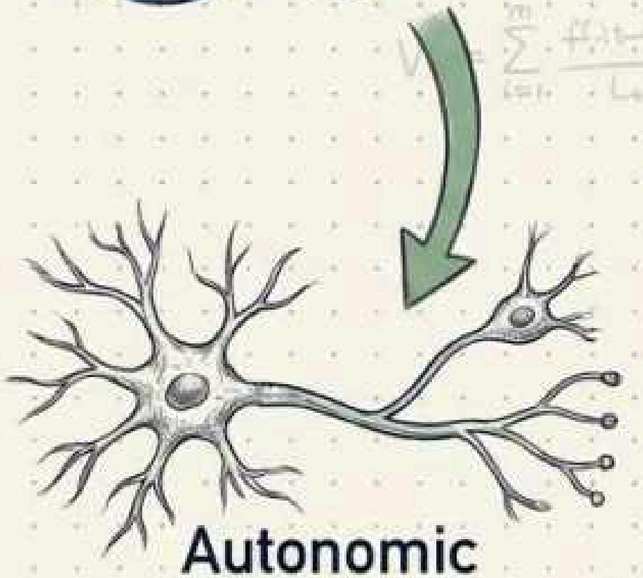


Absorption & Distribution



Breakdown, Removal, Half-Life

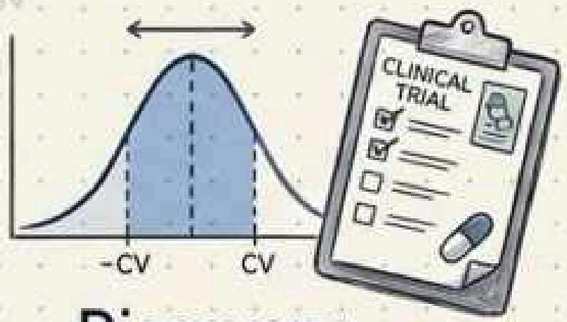




Autonomic Nervous System



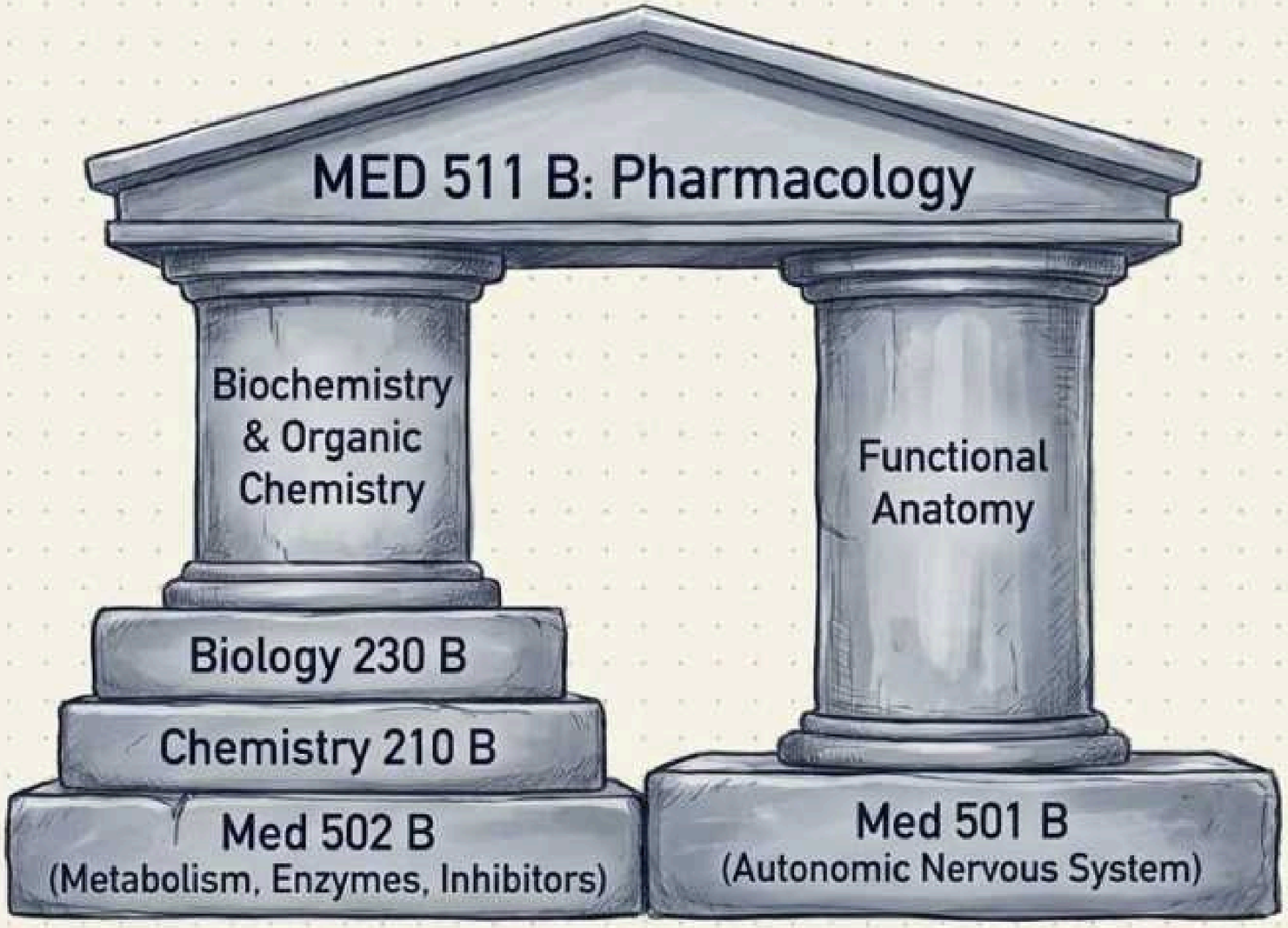
Adverse Effects & Interactions



Discovery & Approval

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The Academic Foundation



Note: Each lecture will explain its specific terms as we build.

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Pharmacology in Miniature: The Two Questions

What is its target?

What happens to it in the body?

Pharmacodynamics
(What it does)

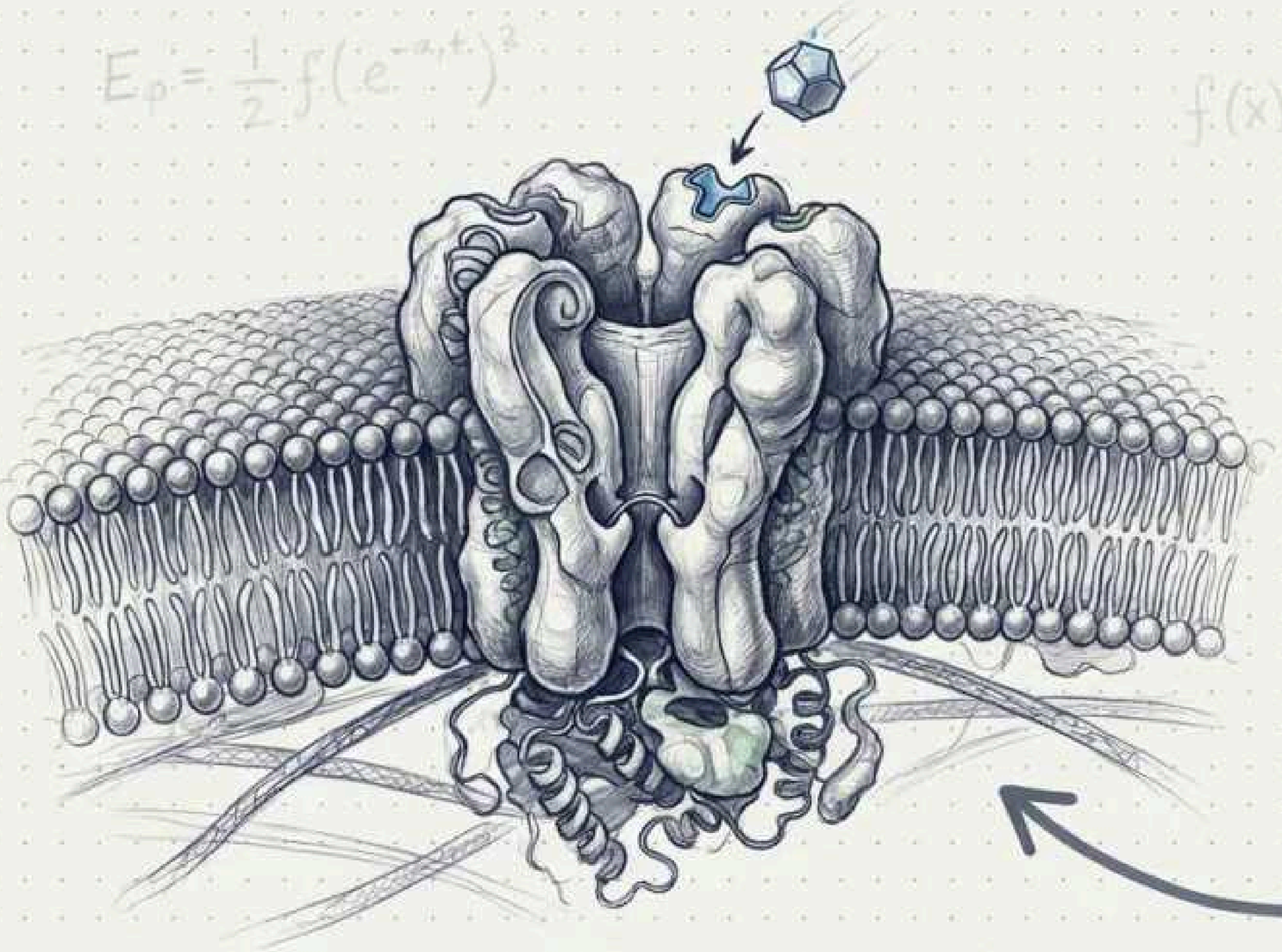
Pharmacokinetics
(How long it lasts & What can go wrong)

When you meet any medicine, ask these two questions.
They are the ultimate practical tip for this course.

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Questions/Feedback:
garyanderson@mail.grokbot.com |
X: @garyanderson

Entering the Molecular World



Now let us see how drugs find and act on their targets, in lecture one.

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