




 glucose transporter بخل مبر

 [In and out side the cell] cell $J \nLeftarrow$ out 9 In

carrier molecule (s) enzymes (t) Ion channel (c) Receptor
Body control system $\leftarrow$ مonowi cussiver.






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5 \text { chain }
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## 1．Direct ligand gated ion channel receptor



 $2 \alpha$ chain its cis $\Leftarrow$ At the same time $\Leftarrow 2$ chain is

 Cell J

1. Direct ligand gated ion channel receptor



 on 2 chain fay

$\square$ very very Rapid

 Receptor $J$ in 1
2. Direct ligand ga ion channel recep

## 11

Principles - Lecture 01: Drug-Receptors: binding and

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 a Gprotein linked $D$, ${ }^{\text {ald }}$, Receptors J in $70 \%$


Inhibitory $\ln$ Limulatory Stotein $\pi$


 Inhibitory, it stimulatory L Gptn Juju

Educational Use Only
2. G-protein lin receptors

10

steroid drug


I

 Bdomain $J_{\mathrm{g}}^{\mathrm{J}} \mathrm{\|}$, Activated
3. Tyrosine kinase linked receptors
extracellular domain

## Dr. AM Fouda MD, PhD

General Principles - Lecture 01: Drug-Receptors: binding and effects



 chain of event

- Receptor JJ EQ te cuade

3. Tyrosine kinase linked receptors


Dr. AM Fouda MD, PhD
General Principles - Lecture 01: Drug-Recepiors: binding and effects
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Receptorl 1 Lian
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 OH
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