tem

Closed reversible pharmacological sys-

system

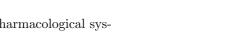
Closed irreversible pharmacological

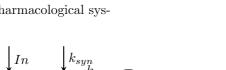
$$\begin{array}{c|c} \textbf{L} & + & \mathbb{R} & \stackrel{k_{\text{on}}}{\longleftrightarrow} & \mathbb{RL} & \stackrel{k_{\text{inact}}}{\longleftrightarrow} & \mathbb{R}\text{-L} \\ \end{array}$$

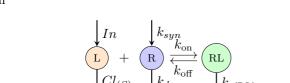
Open reversible pharmacological sys-

tem









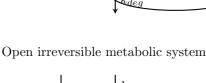
$$\begin{array}{c|c}
L + R & \stackrel{k_{\text{on}}}{\longleftrightarrow} \\
Cl_{(S)} & k_{deg}
\end{array}$$

Open irreversible pharmacological system

gical sys-
$$k_{sup}$$

$$\xrightarrow{\text{n}} \left( \mathbb{R} \right)$$

$$\xrightarrow{\text{nact}} \left( \begin{array}{c} \\ \text{R-L} \end{array} \right)$$



$$k_{deg}$$

Open reversible metabolic system

$$\begin{array}{c}
In & k_{syn} \\
\downarrow k_{con} \\
\downarrow k_{deg}
\end{array}$$

$$\begin{array}{c}
k_{cat} \\
\downarrow k_{cat}
\end{array}$$

$$\begin{array}{c}
\downarrow k_{cat} \\
\downarrow k_{deg}
\end{array}$$

$$\begin{array}{c}
\downarrow k_{cat} \\
\downarrow k_{cat}
\end{array}$$

$$\begin{array}{c}
\downarrow k_{cat} \\
\downarrow k_{cat}
\end{array}$$

$$\stackrel{
m at}{\longrightarrow} \left( E_{
m i} \right)$$

$$\stackrel{\mathrm{t}}{\rightarrow} \underbrace{\left(E_{\mathrm{ii}}\right.}$$

$$\xrightarrow{\operatorname{ct}} \left( E_{\operatorname{i}} \right)$$

$$\stackrel{\mathrm{t}}{
ightarrow} \left( E_{\mathrm{i}} \right)$$

$$\rightarrow \left(E_{\mathrm{i}}\right)$$

$$ightarrow \left( E_{
m in} 
ight)$$



Open ligand-facilitated target removal (LFTR) pharmacological system 
$$\begin{array}{c|c} In & k_{syn} \\ \hline L & + & k_{on} \\ \hline k_{deg} & RL & L_r \\ \hline \end{pmatrix} \begin{array}{c} k_{e(RL)} \\ \hline k_{deg} \\ \hline \end{array}$$