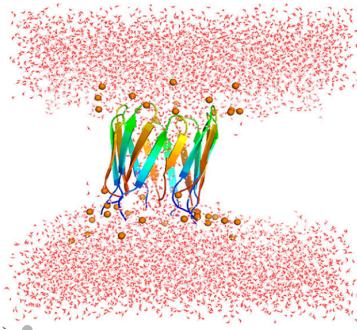
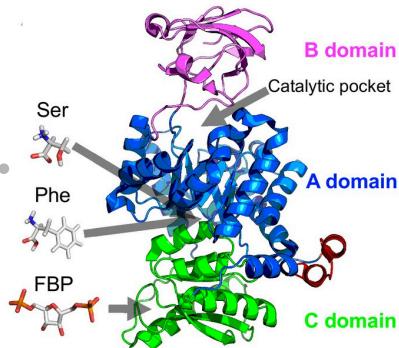
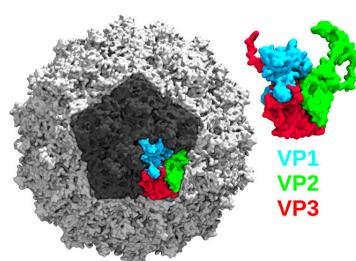
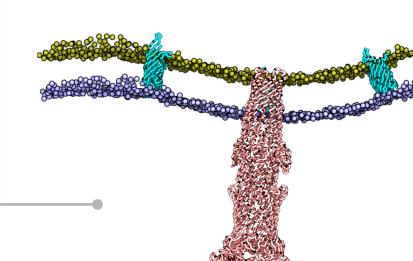


## Description      Representative force fields (and limitations)      Examples

QM/MM	<i>HF approach</i> <i>DTF approach</i>	$\left. \begin{array}{l} \text{up to } 100 \text{ QM atoms} \end{array} \right\}$	
POLARISABLE ALL-ATOMS	<i>AMOEBA</i> <i>AMBER ff02</i> <i>Drude-CHARMM</i>	$\begin{array}{l} 20 \text{ nm - less than } 100 \text{ ns} \\ 20 \text{ nm - up to } 100 \text{ ns} \\ 20 \text{ nm - up to } 500 \text{ ns} \end{array}$	
ALL-ATOMS	<i>CHARMM</i> <i>AMBER</i> <i>OPLS</i>	$\left. \begin{array}{l} 20 \text{ nm size} \\ \text{up to } 1 \mu\text{s} \end{array} \right\}$	
UNITED ATOMS	<i>GROMOS</i> <i>OPLS</i>	$\left. \begin{array}{l} 20 \text{ nm size} \\ \text{up to } 1 \mu\text{s} \end{array} \right\}$	
POLARISABLE COARSE GRAIN	<i>ELBA</i>	$\left. \begin{array}{l} 20-30 \text{ nm size} \\ \text{up to } 1-5 \mu\text{s} \end{array} \right\}$	
COARSE GRAIN	<i>SIRAH</i> <i>MARTINI</i>	$\begin{array}{l} 20-30 \text{ nm - } 10 \mu\text{s} \\ 50 \text{ nm - } 1-10 \mu\text{s} \end{array}$	
COARSE GRAIN + MEAN FIELD	<i>OCCAM</i>	$\left. \begin{array}{l} 20-30 \text{ nm size} \\ \text{up to } 10 \mu\text{s} \end{array} \right\}$	
IMPLICIT SOLVENT	<i>SASA approach</i> <i>GB approach</i>	$\left. \begin{array}{l} \text{up to } 100 \text{ nm and } 10 \mu\text{s} \\ (\text{model dependent}) \end{array} \right\}$	