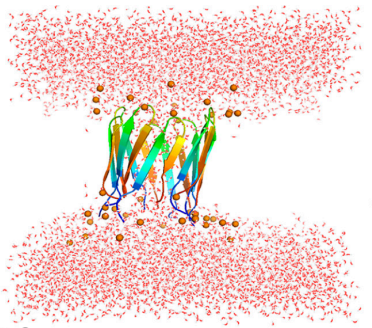
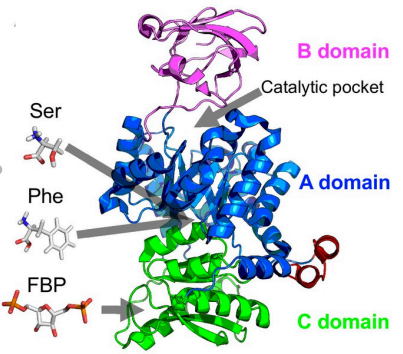
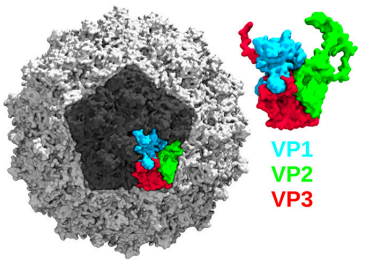
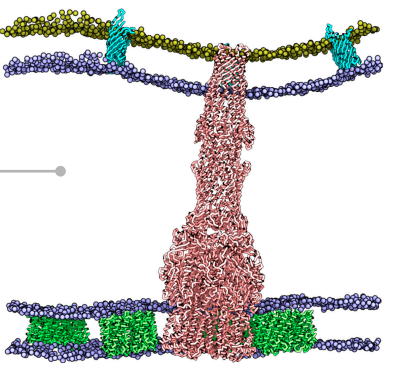
Description	Representative force fields (and limitations)	
QM/MM	*HF approach* *DTF approach*	*up to 100 QM atoms*
POLARISABLE ALL-ATOMS	*AMOEBA* *AMBER ff02* *Drude-CHARMM*	*20 nm - less than 100 ns* *20 nm - up to 100 ns* *20 nm - up to 500 ns*
ALL-ATOMS	*CHARMM* *AMBER* *OPLS*	*20 nm size* *up to 1 µs*
UNITED ATOMS	*GROMOS* *OPLS*	*20 nm size* *up to 1 µs*
POLARISABLE COARSE GRAIN	*ELBA*	*20-30 nm size* *up to 1-5 µs*
COARSE GRAIN	*SIRAH* *MARTINI*	*20-30 nm - 10 µs* *50 nm - 1-10 µs*
COARSE GRAIN + MEAN FIELD	*OCCAM*	*20-30 nm size* *up to 10 µs*
IMPLICIT SOLVENT	*SASA approach* *GB approach*	*up to 100 nm and 10 µs* *(model dependent)*

Examples









ACCURACY

SPEED