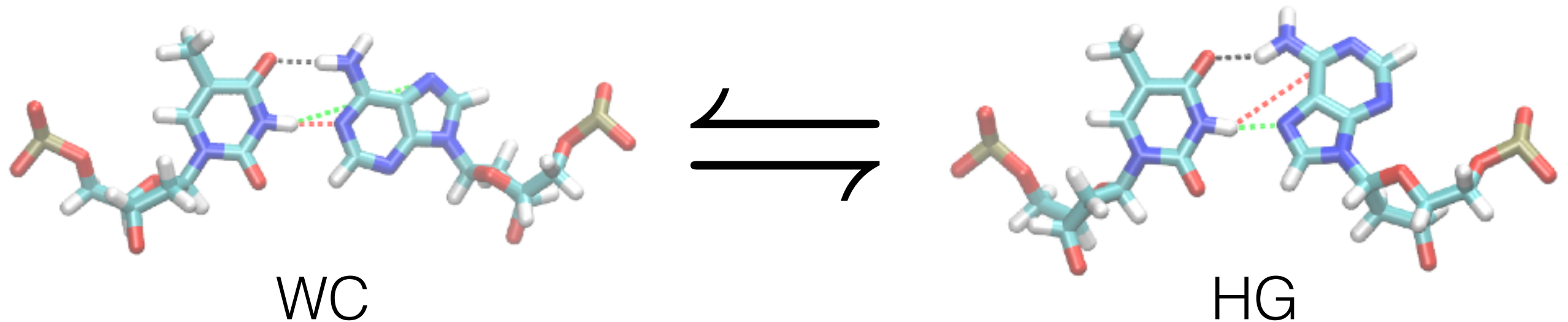


# Rates and Free Energies



	expt*	TIS	TIS / expt
$k_{WC \rightarrow HG} \text{ (s}^{-1}\text{)}$	$14.2 \pm 1.03$	742	$\sim 52$
$k_{HG \rightarrow WC} \text{ (s}^{-1}\text{)}$	$3670 \pm 200$	$1.6 \cdot 10^5$	$\sim 43$
$\Delta G \text{ (k}_B\text{T)}$	5.5	5.4	

at 26.0°C

at 300K

\*Nikolova et. al. Nature **470**, 498 (2011).

$$\frac{\Delta G}{k_B T} = -\ln \left( \frac{k_{WC \rightarrow HG}}{k_{HG \rightarrow WC}} \right)$$