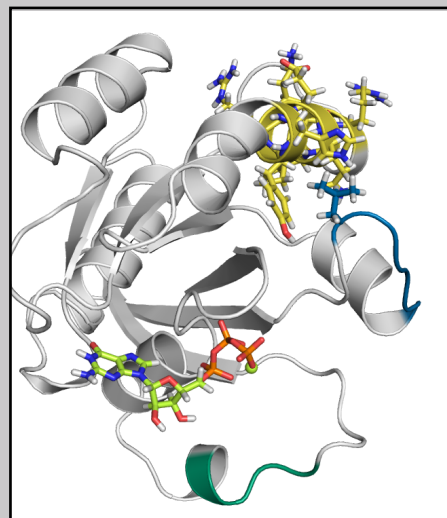


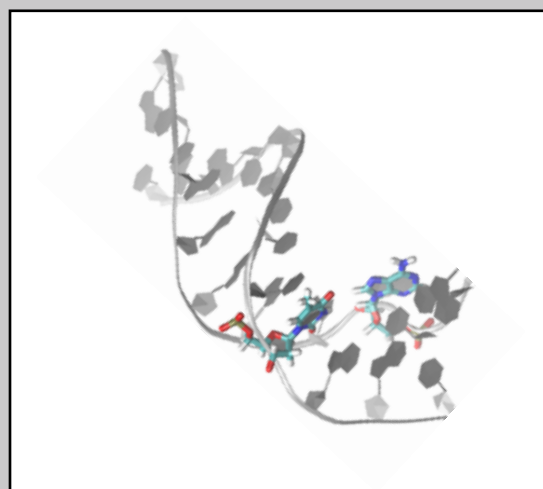
What can we learn?

Mechanisms, rates, free energy landscapes/differences



What are the differences in the dynamics of a healthy protein compared to a cancer-causing mutant?

Roet, Hooft, Bolhuis, DWHS, Vreede. ArXiv (submitted JPCB)



Which mechanism is preferred in a DNA conformational change, and what are the associated rates/free energies?

Vreede, Perez de Alba Ortíz, Bolhuis, DWHS. Nucl. Acids Res. 2019

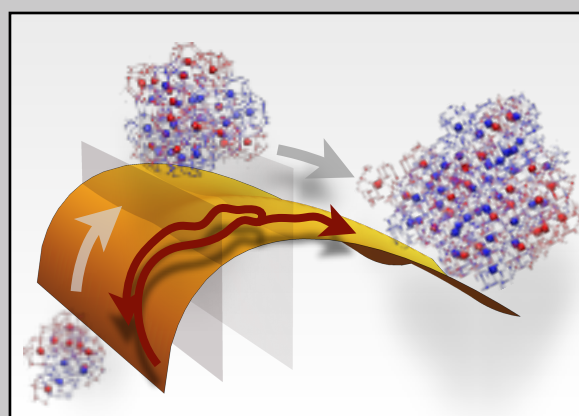


Image © Arjun

How does the mechanism of methane hydrate formation change with temperature?

Arjun, Berendsen, Bolhuis. PNAS 2019

OpenPathSampling



<http://openpathsampling.org>

Twitter: @pathsampling

Development at: <http://github.com/openpathsampling/>

A Python library for path sampling simulations

- ✓ **Easy to use:** Beginners can quickly learn to use it
- ✓ **Easy to extend:** Advanced users can use it to develop new methods
- ✓ **Independent of dynamics engine:** Useful in many fields and to the broadest audience

Core Python library, plus separate command line interface