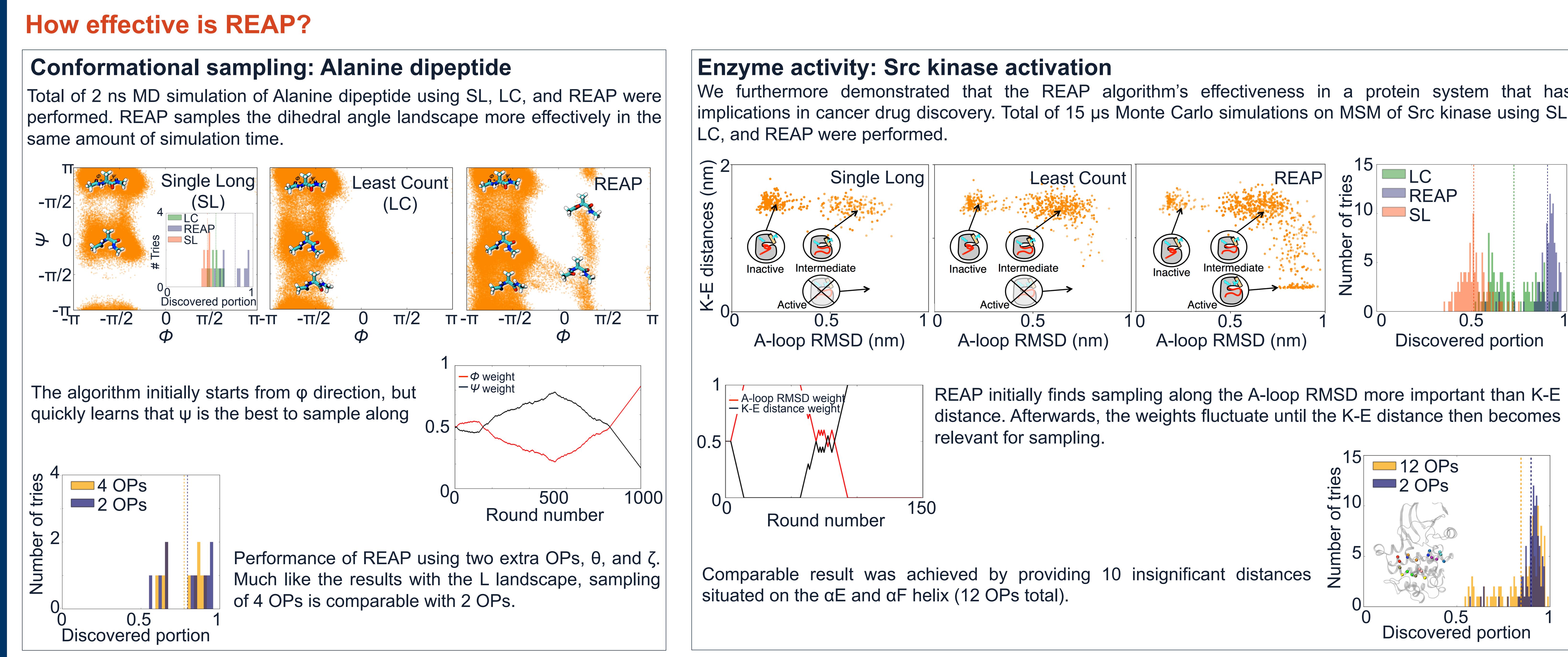
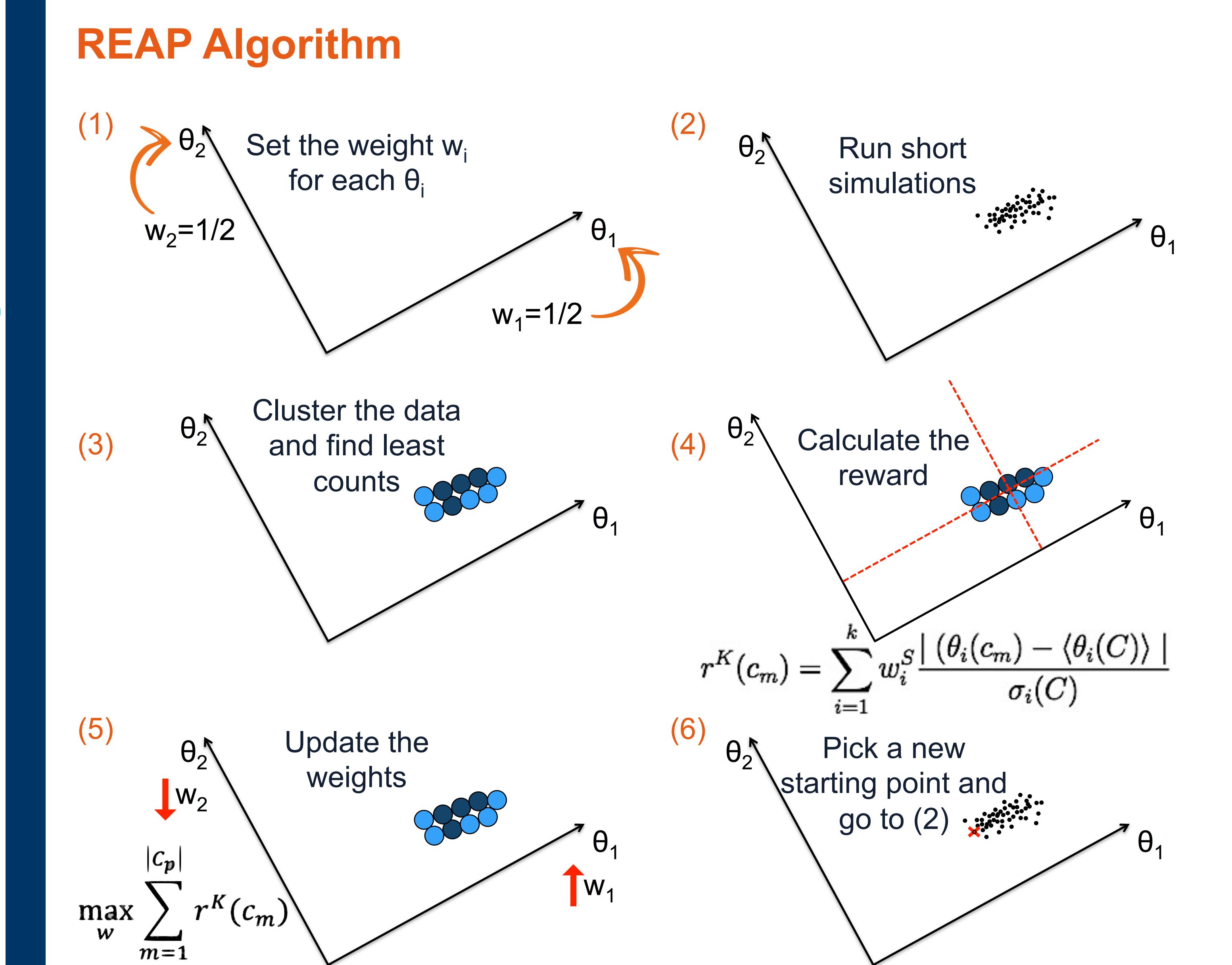
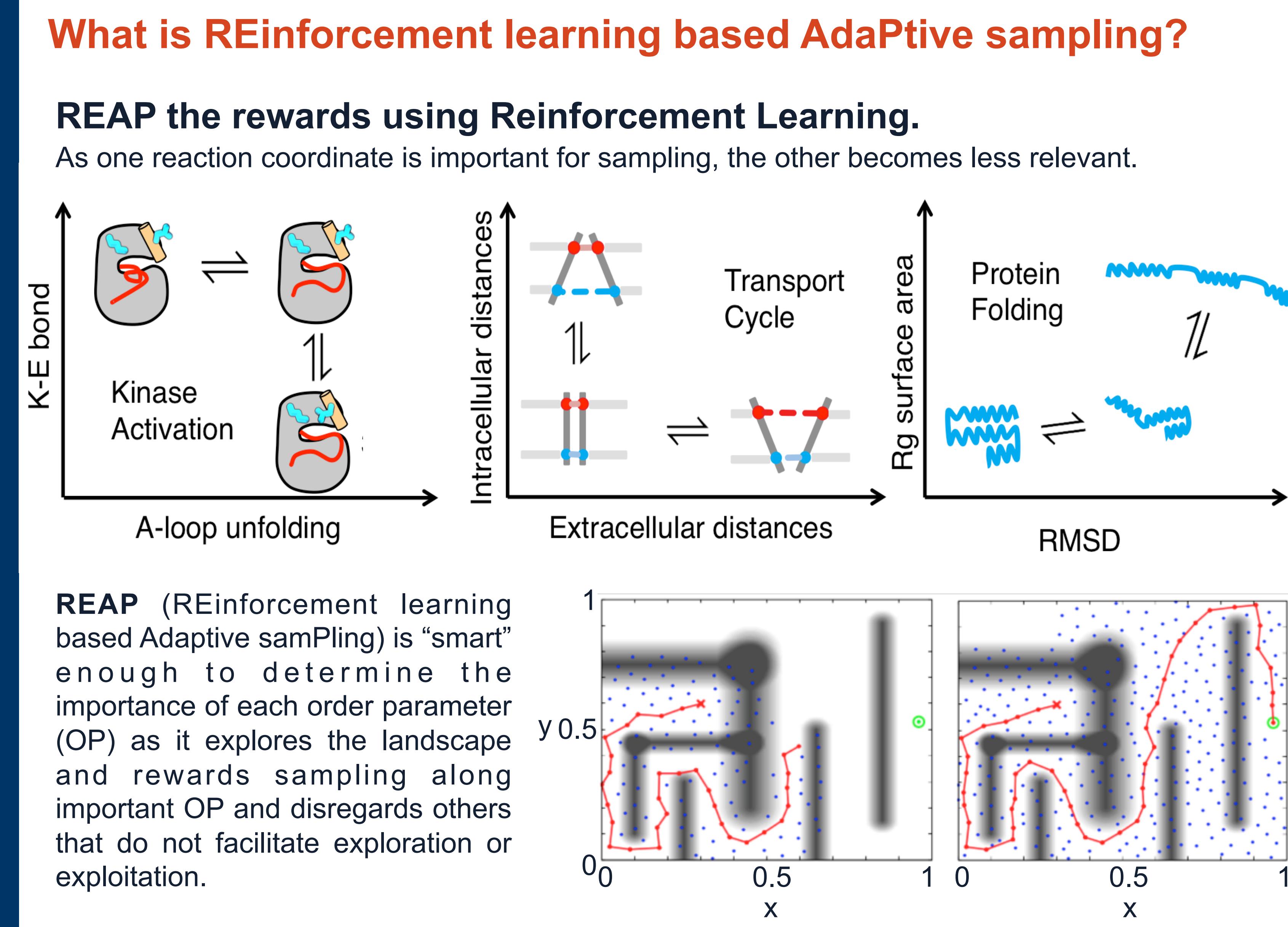
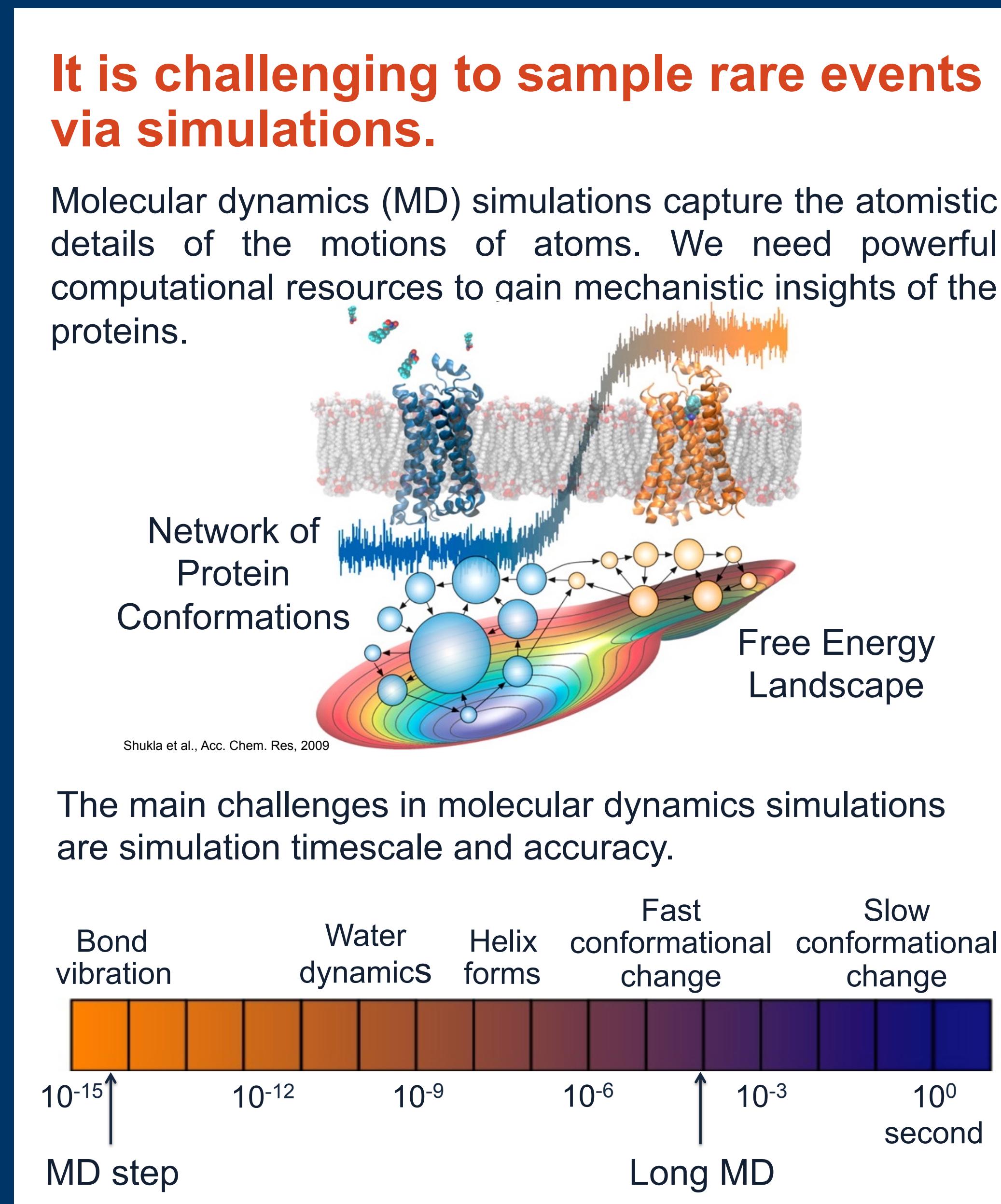




Efficient unbiased sampling of protein dynamics using reinforcement learning

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Conclusion

The proposed algorithm, REAP, has been shown to efficiently sample landscapes. It achieves this by identifying which RCs maximizes a reward function that encourages exploratory behavior. In all systems that were studied, REAP consistently outperformed the traditional simulation approach and least count based sampling when examining the distribution landscape discovered for the same simulation time.

Shamsi, Z., Cheng, J. K., & Shukla, D. REinforcement learning based Adaptive samPling: REAPing Rewards by Exploring Protein Conformational Landscapes, arXiv: 1710.00495, 2017.

Acknowledgements

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