



Research Theme:
Research Project Title: Understanding off-target effects of CRISPR/Cas9 using molecular dynamics simulations
Principal Investigator/Supervisor: A/Prof Mu Yuguang
Co-supervisor/ Collaborator(s) (if any): NA
Project Description
<p>CRISPR-Cas9, a powerful genome editing tool, has widely been applied in biological fields. Since the discovery of CRISPR-Cas9 as an adaptive immune system, it has been gradually modified to perform precise genome editing in eukaryotic cells by creating double-strand breaks. Although it is robust and efficient, the current CRISPR-Cas9 system faces a major flaw: off-target effects, which are not well understood. In this project, molecular dynamics simulations will be applied to study the off-target effects.</p>
Supervisor contact: If you have questions regarding this project, please email the Principal Investigator: ygm@ntu.edu.sg
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