

Insights on AlkB family and DNA polymerase enzymes from computational simulations

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3:00 p.m. Room 8335



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DNA repair is a critical process. Errors in transactions related to this process can result in mutations, some of which can lead to disease or even death. We have carried out computational simulations on representatives from the AlkB and DNA polymerase enzyme families. For the AlkB family enzymes, results on the reaction mechanism of AlkB and structural investigations ABH1 will be presented. For the latter, results on DNA polymerase reactivity with different cations and determination of cancer biomarkers on these proteins will be discussed.