BDR SEMINAR in Kobe

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16:00-17:00, 7F Seminar Room, DB Building A

RIF1 protein protects chromosome integrity from DNA replication stress at multiple points

* This seminar is a part of the Epigenetics Seminar Series 2019-2020.

Summary

RIF1 is a protein conserved in eukaryotes, with a conserved function in controlling chromosomal DNA replication. Recent researches also discovered that RIF1 is implicated in many other pathways to protect chromosomal DNA against various damage and instability. I will present recent findings in our group demonstrating that RIF1 plays multiple roles in protecting chromosomal DNA from DNA replication stress in budding yeast and human cells. Both yeast and human RIF1 protect nascent DNA at stalled replication forks under replication stress. Moreover, human RIF1 is implicated in the management of damage in G1 cells caused by under-replication in the previous cell cycle.



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