**Investigating the cell functions of casein kinase 2 in *Neurospora crassa***

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Casein kinase (CK) is a ubiquitous protein, consisting of a conserved serine/threonine phosphate transferase that have critical role in the growth and development of eukaryotic cells. Till date, majorly three different classes of casein kinase including, CK1, CK2, and Golgi or genuine Casein kinase (G-CK), regulating different processes of cell cycle have been reported. CKs are known to play roles in different cell signaling pathways such as DNA repair, cell differentiation, chromosomal segregation, cell division, circadian clock, Wnt signaling and protein synthesis and degradation.CK2 most often appears as a tetrameric complex consisting of two catalytic α- or α'- and two regulatory β-subunits. In this study, we investigated the role of CK2 regulatory subunit-knockout mutant Δ*ck2B-1* to understand its biological function in *Neurospora crassa*. We found that Δ*ck2B-1* mutant showed similar growth rate in comparison to the wild type. However, the Δ*ck2B-1* mutant showed defects in septation, indicating that CK2 might be important for septa formation in *N. crassa.*

**Keyword:** *Neurospora crassa (N. crassa)*, Casein kinase (CK), Casein kinase-1 (CK1), Casein kinase-2 (CK2), Golgi or genuine Casein kinase (G-CK)