

Special Issue

Protein Phosphatases and Cell Cycle Regulation in Yeasts

Message from the Guest Editors

Control of progression along the cell cycle is a key process in living cells. Such regulation is largely based on protein phospho-dephosphorylation events, catalyzed by protein kinases (PK) and phosphatases (PPases), respectively. Soon after their discovery, Cdks, the highly conserved and specific family of cyclin-dependent serine/threonine kinases, were considered the main component of the cell cycle control system. Only recently has the importance of the regulatory contribution of the opposing PPases emerged. Research on yeast has provided many insights into such contributions. Here we present an overview of the regulatory network that controls the progression across the different steps of the cell cycle in yeasts, with a particular emphasis on the role played by PPases.

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