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Research Interests

1. Eukaryotic Cell Cycle Regulation
2. Eukaryotic Cell Division and Cytokinesis
3. Prokaryotic Cell Division and Cytokinesis
4. Synthetic Biology

PUBLICATIONS:

1. Naqvi, N.I., Wong, K.C.Y., Tang, X., and **M.K. Balasubramanian**. (2000) Type II Myosin Regulatory Light Chain Relieves Auto-inhibition of Myosin Heavy Chain Function. *Nature Cell Biology*. 2: 855-858.
2. Wong, K., Naqvi, N.I., Motegi, F., D'Souza, V.M., Mabuchi, I., and **Balasubramanian, M.K.** (2002) Mitotic inheritance of a myosin II progenitor in Fission Yeast *Current Biology* 12: 724-729.
3. Oliferenko, S., and **Balasubramanian, M.K.** (2002) Astral Microtubules monitor metaphase spindle orientation in fission yeast. *Nature Cell Biology* 4: 816-820.
4. Motegi, F., Mishra, M.*, **Balasubramanian, M.K.**, and Mabuchi, I (2004). Myosin-II reorganization during mitosis is controlled temporally by its dephosphorylation and spatially by Mid1 in fission yeast. *J. Cell Biol.* 165: 685-695.
5. **Balasubramanian, M.K.**, Bi, E., Glotzer, M. (2004). Comparative analysis of cytokinesis in budding yeast, fission yeast and animal cells. *Curr. Biol.* 14: R806-R818.
6. Mishra, M., J. Karagiannis, M. Sevugan, P. Singh, and **M.K. Balasubramanian** (2005). The 14-3-3 protein, Rad24p, modulates function of the Cdc14p family phosphatase Clp1p/Flp1p and increases the efficiency of Septation Initiation Network signaling in Fission Yeast. *Current Biology* 15:1376-1383.
7. Ramanujam Srinivasan, Mithilesh Mishra, Maki Murata-Hori and **Mohan K. Balasubramanian. (2007)**. Filament Formation of the Escherichia coli Actin-Related Protein, MreB, in Fission Yeast. *Current Biology* 17:266-272
8. Yinyi Huang, Ting Gang Chew, Wanzhong Ge, and **Mohan K. Balasubramanian.** (2007). Polarity Determinants Tea1p, Tea4p, and Pom1p Inhibit Division Septum Assembly at Cell Ends in Fission Yeast. *Developmental Cell*. 12:987-996
9. Chew, T.G., and **Balasubramanian, M.K.** (2008) Nuc2p, a Subunit of the Anaphase Promoting Complex, Inhibits Septation Initiation Network Following Cytokinesis in Fission Yeast. *PLoS GENETICS* 4 (1): e17.
10. Ramanujam Srinivasan¹, Mithilesh Mishra¹, Lifang Wu², Zhongchao Yin², **Mohan K. Balasubramanian**^{1,3,4} (2008). The Bacterial Cell Division Protein FtsZ Assembles into Rings in Fission Yeast. *Genes and Development* (In Press).