

Mycobacterial Cell Division

Master colloquium

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Abstract: Growth and development of bacterial cells critically depend on their ability to divide. The field of bacterial cell division has been defined by a series of breakthrough discoveries, and the most outstanding of all is the discovery of divisome protein FtsZ. *Mycobacterium tuberculosis* is the causative organism for tuberculosis, a disease responsible for more deaths through history than any other infectious agent. Because of the nature of this disease, this particular bacterium is extremely dangerous to culture and study. So in many cases, researchers extrapolate the information they found from Gram negative bacteria or more closely related non-pathogenic Gram positive bacteria. As the division is important for all bacteria's, we need to understand the molecular mechanism behind it, so that it can help us in potentially designing antibiotic molecules that curb bacterial growth.

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