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## The molecular genetics of microtubule biology: An introduction

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Microtubules are one of the three basic filament systems (the other two are actin and intermediate filaments) that maintain and regulate; first the assembly, and then the dynamic behavior of the cytoskeleton of eukaryotic cells. Moreover, the production, assembly, and dynamic behavior of the microtubules is maintained and regulated, in parts, by several gene families. In two recent mini-reviews by this author, the role of microtubule dynamics in neurodegenerative disorders, and the potential applications of microtubule stabilizing drugs in neurological disorders were surmised. The author is proposing that a deeper understanding of the molecular genetics involved in microtubule biology would be an invaluable asset to the further understanding of the role of microtubule dynamics and potential applications of microtubule stabilizing agents in neurological disorders and neurodegenerative diseases.

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