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# **Structure and Roles of Dynein in Cellular Processes**

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Deadline for manuscript submissions:

closed (31 December 2023)

## **Message from the Guest Editors**

Dear Colleagues,

Dynein is a microtubule-based motor protein responsible for intracellular cargo transport and cell motility. Its cargos include many essential membrane-bound organelles, ribonucleoprotein particles, and aggregated proteins. A fully activated dynein transport machine requires the formation of a tripartite complex, consisting of dynein-1, the dynactin complex, and an adaptor protein. Dyneinmediated cargo transport is a highly regulated cellular process in time and space, which involves the participation of many different cofactors and adaptors. Due to the many fundamentally important cellular roles of dynein-1, a large number of human diseases are linked to dynein-1 mutations. Furthermore, during the evolution, myriads of viruses have evolved to 'hitchhike' the dynein-1-mediated intracellular transport to facilitate their translocation, assembly, and replication in the host cells.

The topics of this Special Issue will include but are not limited to the following themes:













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