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Transport of intermediate filaments in cells

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Recently, it has been shown that intracellular transport of assembled intermediate filament proteins is one major determinant of their organization in cells. Based on experimental data, mathematical models of the spatio-temporal distribution of intermediate filaments in cells are developed to investigate the contributions of different types of transport such as retrograde flow of actin and motor proteins. Furthermore, models for the motion of single filaments driven by motor proteins are also proposed.

Primary author: PORTET, Stéphanie (University of Manitoba, Winnipeg, Manitoba (Canada))

Presenter: PORTET, Stéphanie (University of Manitoba, Winnipeg, Manitoba (Canada))

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