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Intracellular Transport in Beta Cells - from Anti-Corellated to Active STANISLAV BUROV, ALI TABEI, AARON DINNER, NORBERT SCHERER, University of Chicago — The intracellular transport along micro-tubules is the main focus of this research. We study the transport of insulin granules inside Beta cells. By developing new technique for the analysis of single 2D trajectories we observe a transition in the transport behavior from anti-correlated to active as a function of time. We further use the observed effect in order to discriminate between possible scenarios of active transport through disordered media as models of efficient intracellular transport.

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