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# From microtubules tracking to cell nuclear volume evaluation: swapping from T to Z axis in confocal microscopy

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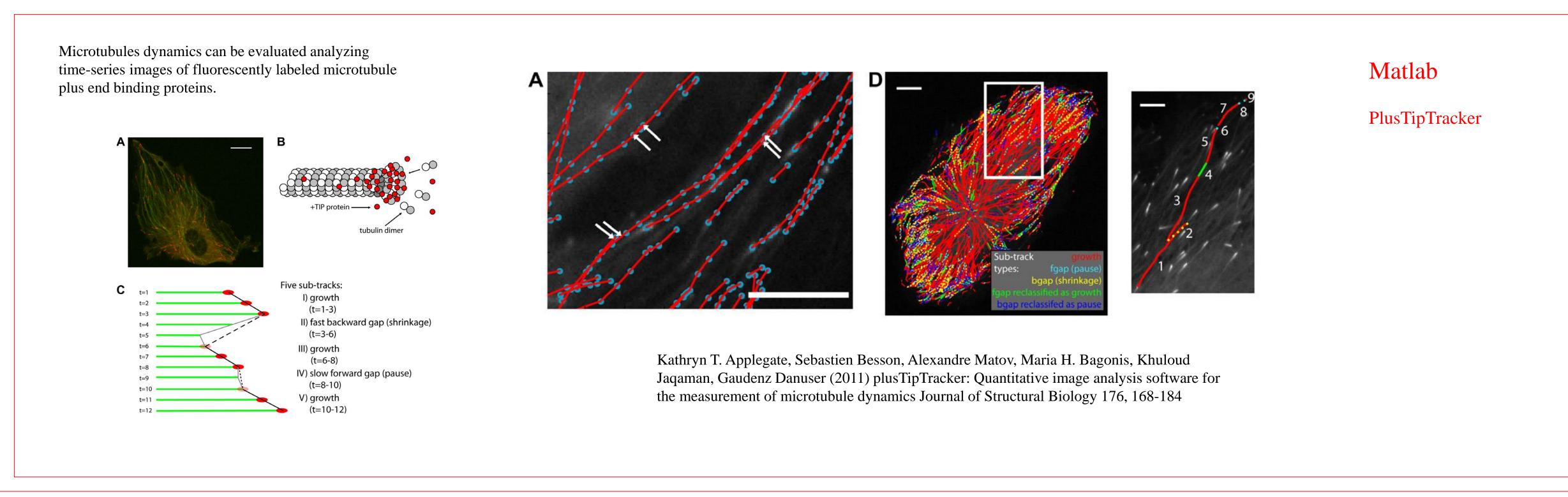
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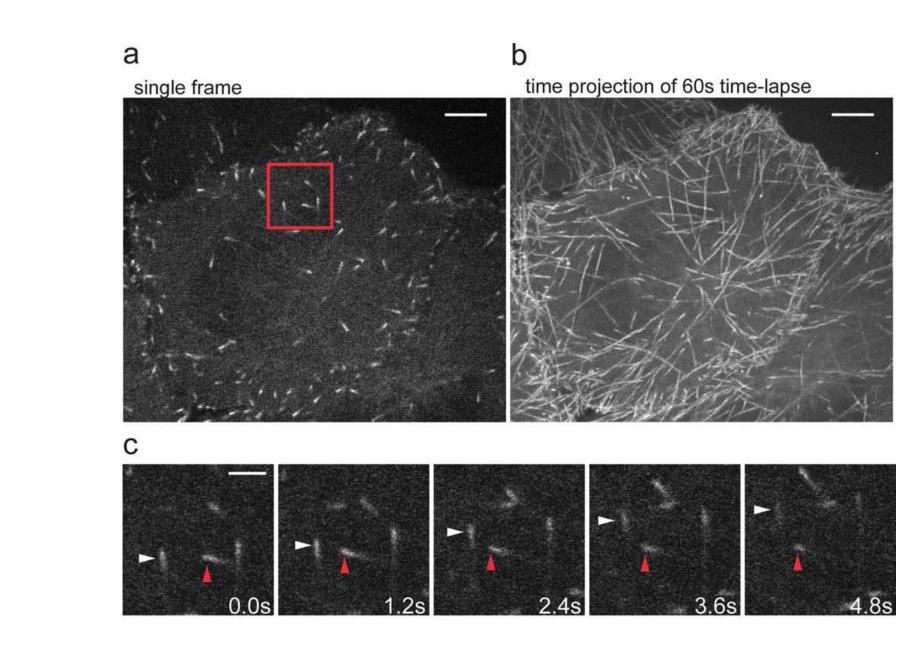
#### Introduction

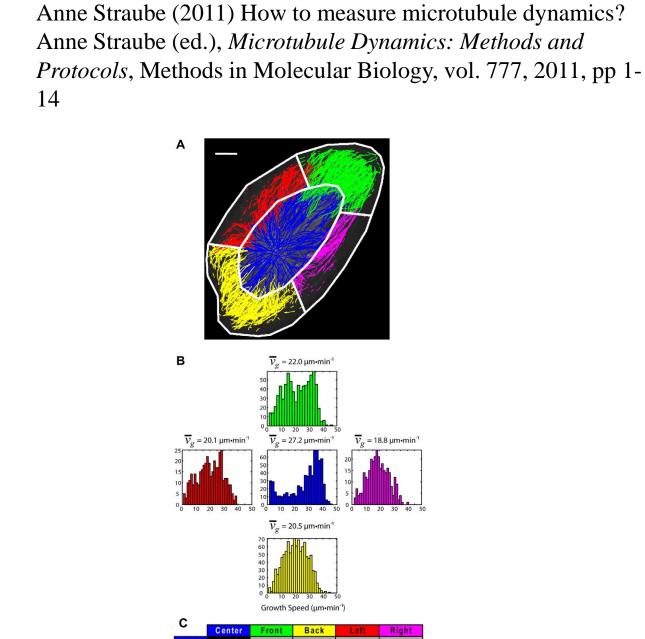
Image post processing with Matlab and ImageJ: microtubules dynamics, endoreduplicated nuclei size

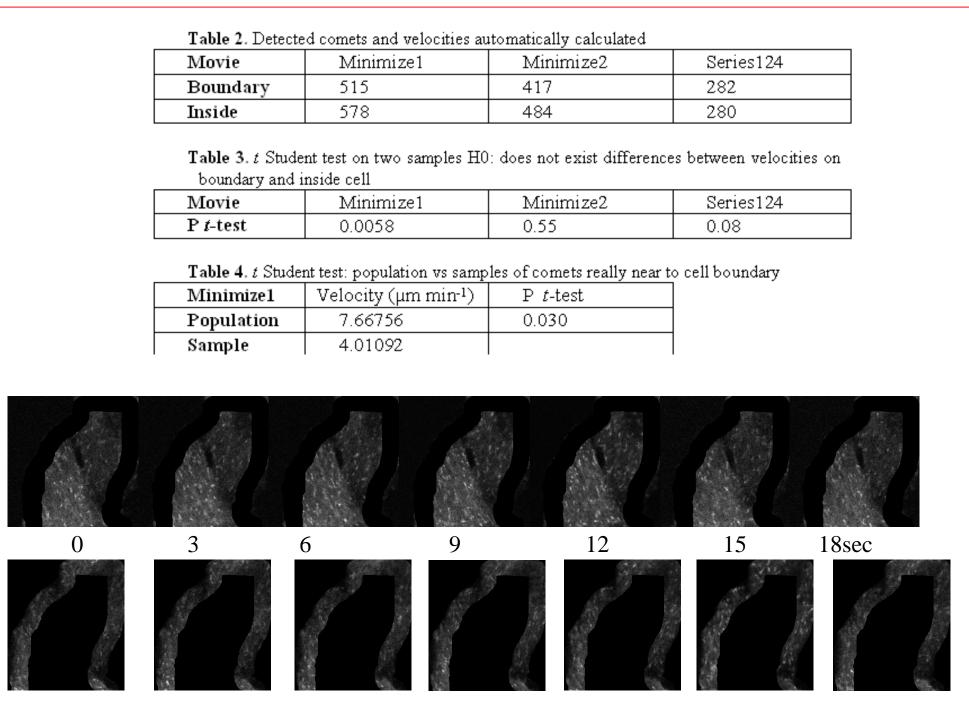
- Microtubules dynamics measurements: growth rate, shrinkage. Time series images in confocal microscopy, post processing imaging with Matlab PlusTipTracker
- Endoreduplication: size of the nuclei which double DNA content without dividing. Z series images in confocal microscopy, post processing imaging with three compared methods: Our designed plugin in ImageJ, 3D Object counter in ImageJ, TrackMate in ImageJ.

## **T** Axis









## ZAxis

