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## A Modeling Study to Characterize Microtubule Mechanisms of Dynamic Instability: Connecting Micro-Level Tip Structures to Macro-Level Phases

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2 messages

Shant Mahserejian <smahsere@nd.edu>

Thu, Apr 13, 2017 at 12:05 PM

To: Chunlei Li <lclpku@gmail.com>, Chunlei Li <chunlei.li.114@nd.edu>

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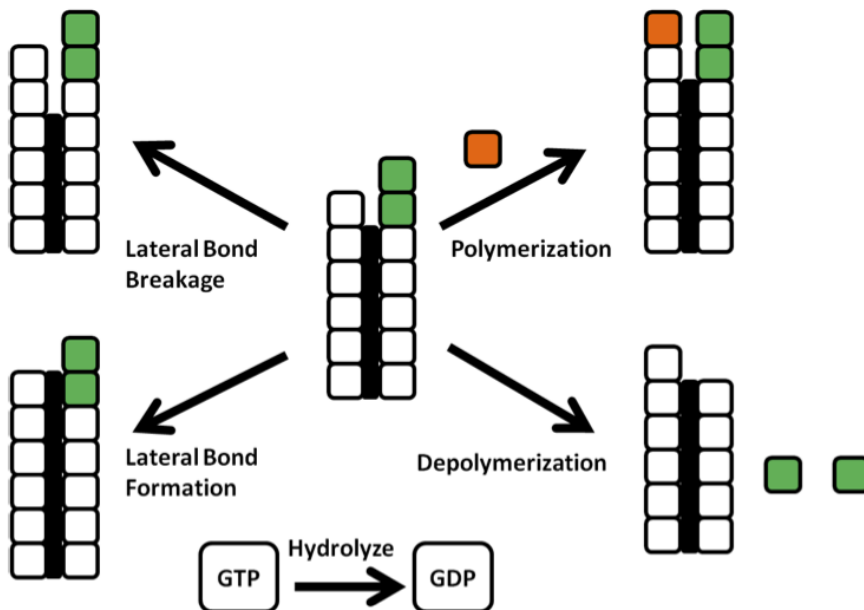


Figure 3.2 Different events in our MT model. In our microtubule model, we include only two protofilaments and the lateral bond between these two protofilaments. We include five biochemical events, polymerization, depolymerization, lateral bond formation and breakage, and hydrolysis.

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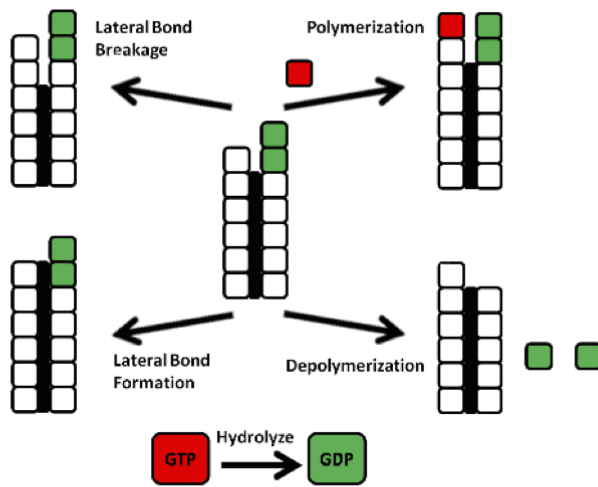


Figure 3.4. The five possible dynamic events that can change the 2-PF structure. Polymerization can lengthen a PF tip by one GTP-subunit. Depolymerization can remove a consecutive sequence of laterally unbonded subunits in a PF tip. The top-most lateral bond can break. A new lateral bond can form immediately above the top-most lateral bond, given that the space between two laterally neighboring subunits exists. Hydrolysis can irreversibly change a GTP-bound subunit into a GDP-bound state (adapted from [46]).

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Best Regards,

**Shant Mahserejian**

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Thu, Apr 13, 2017 at 12:32 PM

Hi Shant,

I hope you are doing well too.

Sure. You can use the figure.

Best,  
 Chunlei

On Apr 13, 2017, at 9:05 AM, Shant Mahserejian <smahsere@nd.edu> wrote:

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I hope that you are doing well! I'm contacting you with something important regarding my dissertation. I'd like to ask permission from you to use one of the figures from your dissertation. Since it was not used in any publication, and only appears in your dissertation text, I need to ask permission from you directly. Additionally, the deadline for me to turn in the dissertation materials is today, so I'd like to hear back from you as soon as possible please.

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Best Regards,

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