

An optogenetic tool for localised microtubule disassembly

Sonderseminar, 1700, Thursday 7th October

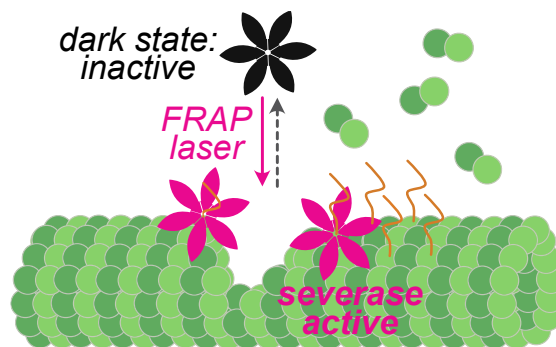
Römer Forum, BioSysM, LMU Faculty of Chemistry & Pharmacy
or Zoom (<https://lmu-munich.zoom.us/j/95506316668?pwd=ek1iU2dVOVpseG5uOFhFbll4N3M4dz09>)

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Tools to control protein functions with the spatial and temporal precision with which we can apply light, have grown tremendously in recent years. Both optogenetics (photocontrolled fusion proteins) and photopharmacology (photocontrolled small molecule ligands) have made valuable contributions: particularly to controlling cell motility¹, excitable cell function², and towards controlling cytoskeletal structure and dynamics³.

Here, we present unpublished work on the first light-controlled system for enzymatic microtubule severing with high spatial and temporal precision.

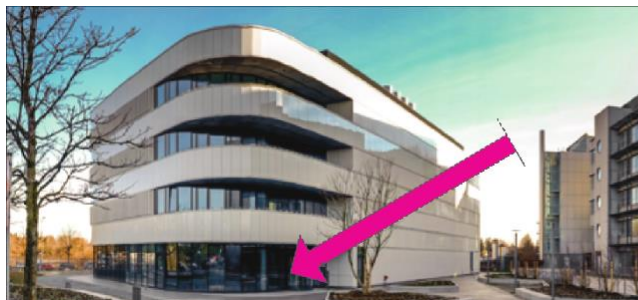


optogenetic severases
to remodel MTs

[1] doi.org/frdz97 ; bit.ly/3Dl9hKf ; doi.org/ggzn8n

[2] doi.org/cg6dg4 ; doi.org/gfqwd3

[3] doi.org/f4zt ; doi.org/gzht ; doi.org/f63z



In-Person: Römer Forum, ground floor
of BioSysM building (as you enter),
LMU Faculty of Chemistry & Pharmacy

**BioSysM is at the corner of
Butenandtstr and Würmtalstr**

Meet-the-speaker after the talk