



# Polymerization can be influenced chemically

## Actin:

1. *cytochalasins* (binds to the growing filament end, inhibits polymerization)
2. *phalloidin* (from *Amanita phalloides*, stabilizes the polymer)

## Microtubules:

1. *Colchicine* (antimitotic drug, inhibits polymerization)
2. *Vinca alkaloids* (vinblastin, vincristin, antimitotic drugs, inhibit MT polymerization)
3. *Taxol* (from yew tree, stabilizes microtubules, antimitotic drug)