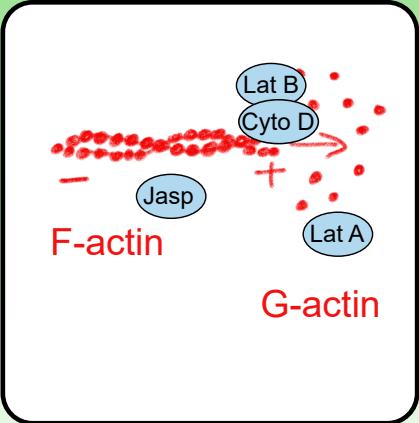
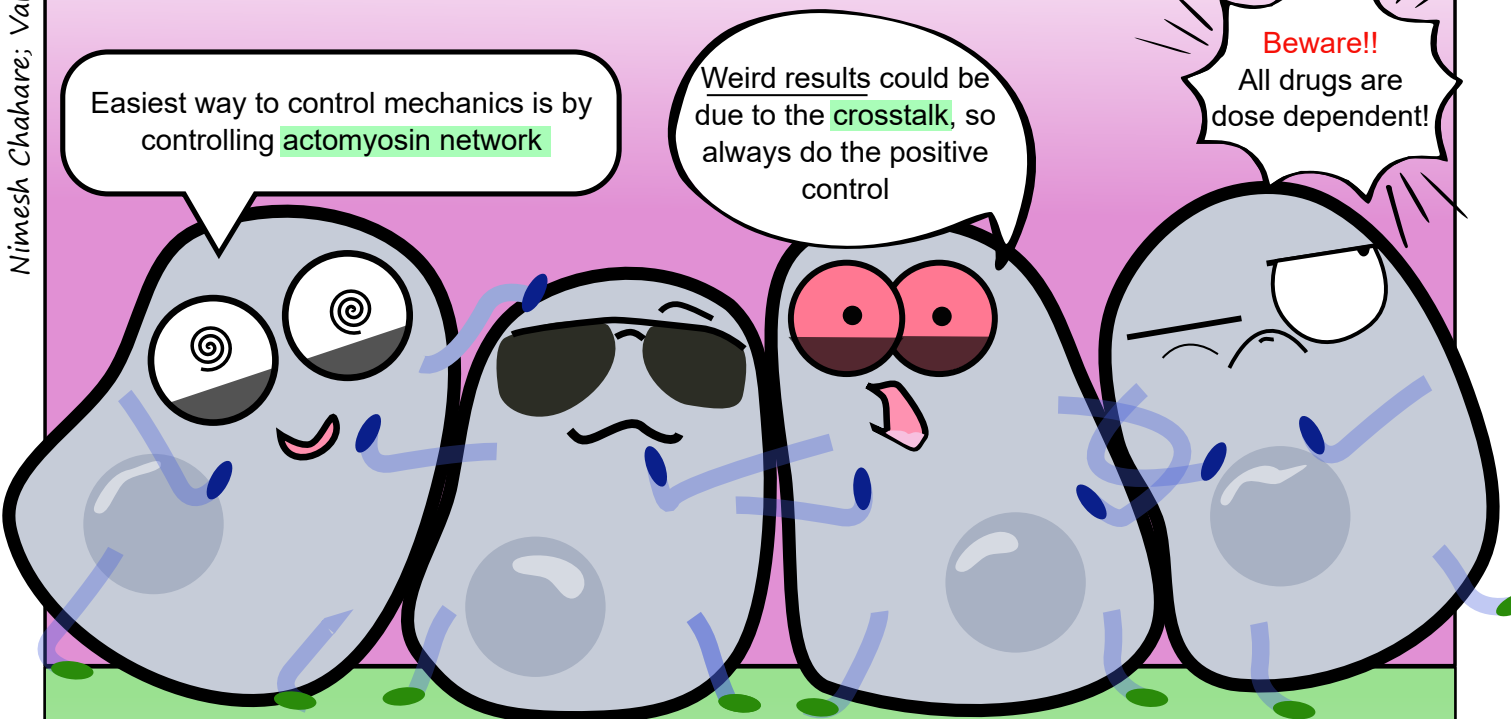
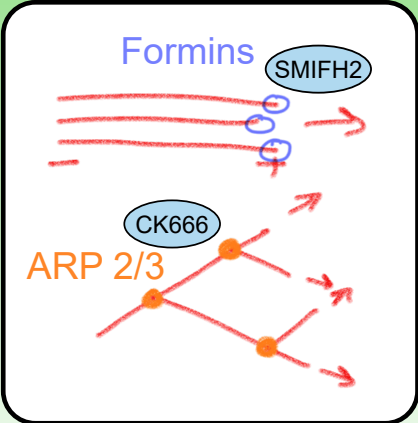


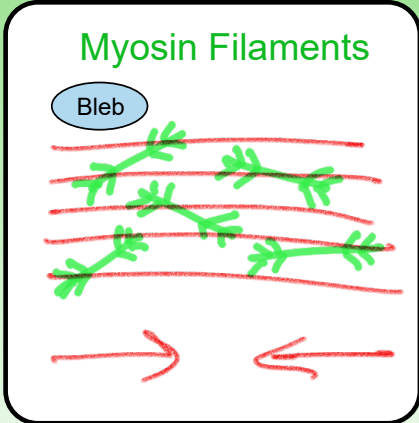
# Epithelial Mechanics Fan Club's Guide for doing drugs



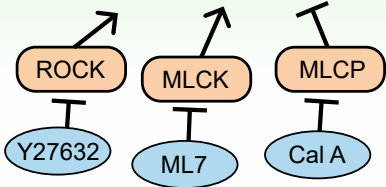
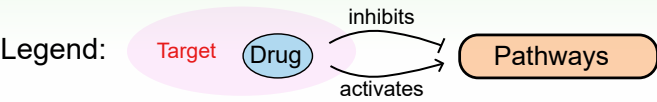
Polymerization



Bundling and Branching



Contractility



Interferes with:	Drug name	What it does
Actin polymerization	▼ Latrunculin A (Lat A)	binds to G actin
	▼ Latrunculin B (Lat B)	both bind to barb end of F actin
	▼ Cytochalasin D (Cyto D)	
~▲	Jasplakinoide (Jasp)	binds to the side of F actin stabilizing it
Actin bundling and branching	▼ CK666	binds to Arp2/3 complex inhibiting nucleation of branches
	▼ SMFH2	inhibits formin-driven actin polymerization (it also affects myosin)
Myosin II contractility	▼ Y27632	inhibits Rho Kinase (ROCK)
	▼ ML7	inhibits Myosin Light Chain Kinase (MLCK)
	▲ Blebbistatin (Bleb)	inhibits myosin ATPase activity
	▲ Calyculin A (Cal A)	inhibits Myosin phosphatase (MLCP)

References: Etienne-Manneville, S., & Hall, A., (2002); Fletcher, D. A., & Mullins, R. D. (2010); Suarez, C., & Kovar, D. R. (2016).  
Authors note: This is a simplification, go read more papers! Good luck and be safe doing drugs.