

**To:** Jeffrey Epstein[jeevacation@gmail.com]  
**From:** Nowak, Martin  
**Sent:** Fri 1/31/2014 4:32:46 PM  
**Subject:** Signaling Pathways: MAPK/Erk in Growth and Differentiation

[http://www.cellsignal.com/reference/pathway/MAPK\\_ERK\\_Growth.html](http://www.cellsignal.com/reference/pathway/MAPK_ERK_Growth.html)

these networks get messed up in cancers  
they get rewired by mutation to drive cell division

the drugs try to block in various places